

Preliminary Draft

Phase I Municipal Stormwater NPDES and State Waste Discharge General Permit

May 16, 2005

Permit No. _____

Coverage Date _____

Issuance Date:

Effective Date:

Expiration Date:

**National Pollutant Discharge Elimination System and
State Waste Discharge General Permit for Discharges
from Large and Medium Municipal Separate Storm Sewer Systems**

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
OLYMPIA, WASHINGTON 98504-7600

In compliance with the provisions of
The State of Washington Water Pollution Control Law
Chapter 90.48 Revised Code of Washington
and
The Federal Water Pollution Control Act
(The Clean Water Act)
Title 33 United States Code, Section 1251 et seq.

Until this permit expires, is modified, or revoked, Permittees that have properly obtained coverage under this permit are authorized to discharge to waters of the state in accordance with the special and general conditions which follow.

Dave Peeler
Water Quality Program Manager
Department of Ecology

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¹ Terms that are included in the definitions and acronyms section are indicated in italics the first time they are used in the text of the permit.

1 **[CONVENTION USED FOR COMMENTS AND EDITS]**

- 2 • **All comments are bracketed and shown in bold, underlined font.**
- 3 • **All suggested edits are shown in strikeout and underline format.**
- 4 • **Some comments and edits are tiered to reflect an order of preference for their**
- 5 **application. Tier 1 comments and edits are first preference, Tier 2 are second**
- 6 **preference, and so on. All comments and edits are Tier 1 unless otherwise specified.**

7 SPECIAL CONDITIONS

8 **S1. PERMIT COVERAGE AND PERMITTEES.**

9 **[Ideally, we would like municipal stormwater permits to be issued by WRIA so that**

10 **the language of S1A would be modified to add a reference to the WRIA covered by**

11 **the permit and S1B would list all the regulated Phase I and Phase II permittees in the**

12 **WRIA. Our next preference would be to have one general permit for all regulated**

13 **western Washington municipalities that requires the development of WRIA-wide,**

14 **rather than jurisdiction by jurisdiction, stormwater management programs**

15 **(SWMPs). This alternative would also require changes to both sections A and B as**

16 **well as S3 and to S7.]**

17 **[King County owns and operates drainage facilities in jurisdictions other than**

18 **unincorporated King County. These facilities are attached to sites usually associated**

19 **with the County's regional services, such as the King County Airport, transfer and**

20 **pump stations, parks, courthouses and detention centers, and park and rides. There**

21 **are currently differing opinions about whether, under the language below, these**

22 **facilities are part of the County's regulated municipal separate storm sewer system**

23 **(MS4), are covered by the permit of the host jurisdiction, are secondary permittees, or**

24 **are not included in any permit. This topic, and its many associated issues, warrants**

25 **further discussion before development of the next draft.]**

26 A. Permit Coverage Area

27 This permit covers *discharges from Large and Medium Municipal Separate Storm*

28 *Sewer Systems (MS4s)* as established at Title 40 CFR 122.26, except for *municipal*

29 *separate storm sewers (MS3s)* owned or operated by the Washington State Department

30 of Transportation.

31

- 32 B. The following entities had coverage under a previous municipal *stormwater* permit and
- 33 reapplied for coverage. Their coverage date under this permit begins on the effective
- 34 date of this permit. These entities are covered under this permit as Permittees:

35 The City of Seattle

36 The City of Tacoma

37 King County

38 Snohomish County

1 Pierce County

2 Clark County

3
4 C. King County had coverage under a previous municipal stormwater permit, as a *Co-Permittee* with the City of Seattle, and reapplied for coverage. Their coverage date
5 under this permit begins on the effective date of this permit. King County is covered as
6 a Co-Permittee with the City of Seattle for discharges it owns or operates in the City of
7 Seattle.
8

9 D. Upon application and coverage in accordance with Special Condition S1.F, the
10 following entities are covered under this permit as Secondary Permittees:

- 11 1. Port of Seattle, excluding Seattle-Tacoma International Airport
12 2. Port of Tacoma
13 3. Drainage, diking, flood control, or diking and drainage districts located in the Cities
14 or unincorporated portions of the Counties listed in ~~S2.AS1.B.~~, above, which own
15 or operate municipal separate storm sewers serving non-agricultural land uses.
16 4. Other owners or operators of municipal separate storm sewers located in the Cities
17 or unincorporated portions of the Counties listed in ~~S2.AS1.B.~~, above.
18

19 E. Unless otherwise noted, the term “Permittee” shall include Permittee, Co-Permittee, and
20 Secondary Permittee, as defined ~~above~~ in Special Conditions S1.C and S1.D.

21 F. Coverage for Secondary Permittees

- 22 1. In order to obtain coverage under this permit, each secondary Permittee identified
23 under Special Condition S1.D shall submit a *Notice of Intent* (NOI) and provide
24 public notice of the application for coverage in accordance with WAC 173-226-
25 130. The NOI shall constitute the application for coverage. Ecology will notify
26 applicants in writing of their status concerning coverage under this permit within 90
27 days of Ecology's receipt of the NOI and demonstration that the public notice
28 requirements have been met.

29 2. NOIs shall be submitted to:

30 Department of Ecology
31 Water Quality Program
32 Municipal Stormwater Permit Program
33 P.O. Box 47600
34 Olympia, WA 98504-7600

35 **S2. AUTHORIZED DISCHARGES.**

36 A. This permit authorizes the discharge of stormwater to surface waters and to ground
37 *waters of the state* from municipal separate storm sewers owned or operated by each
38 Permittee, Co-Permittee, and Secondary Permittee identified in Special Condition S1 as
39 follows:

40 ~~1. Existing stormwater discharges.~~

2. ~~New stormwater discharges constructed after the issuance date of this permit that have received all applicable state and local permits and use authorizations, including compliance with Ch. 43.21C RCW (the State Environmental Policy Act), and that are in compliance with Special Condition S5. COMPLIANCE WITH STANDARDS, of this permit.~~

Delete 1 and 2 above consistent with the TIER 1 & 2 versions of Condition S5 comments/edits The Clean Water Act provides one standard for the regulation of municipal stormwater discharges: control to reduce pollutants to the maximum extent practicable (MEP). This double standard for existing and new discharges is not consistent with the Clean Water Act.]

3. Stormwater discharges to ground waters of the state are covered under this permit, except that stormwater discharges to ground waters of the state that are designed to discharge through facilities regulated under the Underground Injection Control (UIC) program, Chapter 173-218 WAC, are not covered under this permit. [Stormwater structures that are not specifically designed to discharge directly to the groundwater should be excluded from the UIC program.]

4. Stormwater discharges to ground waters not in hydraulic continuity with surface water are covered in this permit only under state authorities, Chapter 90.48 RCW, the Water Pollution Control Act.

B. This permit authorizes discharges of stormwater associated with industrial and construction activity, process wastewater, and non-stormwater discharges from municipal separate storm sewers owned or operated by the Permittee, to waters of the state, only under the following conditions:

1. Non-stormwater discharges and process wastewater must be authorized by another *National Pollutant Discharge Elimination (NPDES)* permit or ~~identified by and be eliminated~~ in compliance with Special Condition S7.C.8 Illicit Connections and Illicit Discharges Detection and Elimination; or

2. *Stormwater associated with industrial activity*, as defined by 40CFR122.26(b)(14), must be authorized by a separate individual or general NPDES permit, such as the Industrial Stormwater General Permit, Construction Stormwater General Permit, or another General Permit or individual permit issued by the Department.

C. This permit authorizes discharges from fire fighting activities, except training exercises; ~~unless the discharges from fire fighting activities are identified as significant sources of pollutants to waters of the State.~~ [Firefighting activities cannot cease if runoff is causing water quality exceedences.]

D. This permit does not authorize illicit discharges ~~except as allowed in Special Condition S7.C.8. Illicit Connections and Illicit Discharges Detection and Elimination~~ [there are no illicit discharges allowed under Special Condition S7.C.8.], nor does it relieve ~~entities responsible parties~~ [as defined in 173-303 WAC, 173-340 WAC] for illicit discharges, including spills of oil or hazardous substances, from responsibilities and liabilities under state and federal laws and regulations pertaining to those discharges.

1 E. This permit does not authorize discharge of stormwater to a sanitary sewer. Discharge
2 of stormwater to sanitary sewers is prohibited except for stormwater contaminated by
3 industrial activities, or other severely contaminated stormwater, and then only when no
4 other reasonable options exist and only when approved by the local sewer district
5 and/or owners of a Publicly Owned Treatment Work (POTW).

6
7 **S3. RESPONSIBILITIES OF PERMITTEES, CO-PERMITTEES, AND SECONDARY**
8 **PERMITTEES**

9 [Our favored approach to municipal SW permitting is for permits to be tailored and
10 issued for each WRIA, or at least for each WRIA that is participating in salmon
11 conservation planning. Our second preference would be one general permit for all
12 Phase I and Phase II MS4's that requires all regulated municipalities within each
13 WRIA, or at least the salmon conservation planning WRIA's, to develop and
14 implement a unified SWMP for municipal stormwater for each of those WRIA's. As
15 a last resort, if it appears that both of those steps are too ambitious to achieve at this
16 time, then we would like to see strong language in both the Phase I and Phase II
17 permits that encourages cooperation within WRIA's. We have inserted alternative
18 wording below that would implement the third preference. We would be happy to
19 work with Ecology on developing the major changes to the permit that would be
20 required for our first and second preferences.]

21 A. Each Permittee, Co-Permittee and Secondary Permittee is responsible for compliance
22 with the terms of this permit for the municipal separate storm sewers it owns or
23 operates.

24 1. Each Permittee is required to comply with all conditions of this permit, except for
25 S8., *Stormwater management program for Co-Permittees and Secondary*
26 *Permittees.*

27 2. Each Co-Permittee and Secondary Permittee is required to comply with all
28 conditions of this permit, except for Special Condition S7., *Stormwater*
29 *management program for Permittees.*

30 B. Permittees, Co-Permittees and Secondary Permittees may rely on another entity to
31 meet one or more of the requirements of this permit, if the other ~~entity~~entity [please
32 define], in fact, implements the control measure, and agrees to implement the control
33 measure on the Permittee's behalf. Permittees that are relying on another entity to
34 satisfy one or more of their permit obligations remain responsible for permit
35 compliance if the other entity fails to implement the permit conditions. All regulated
36 municipalities (including those covered under other municipal permits) within the same
37 watershed resource inventory area (WRIA) are encouraged to pool municipal resources
38 and share permit responsibilities for more cost effective implementation of permit
39 requirements and more coordinated protection of watershed water quality. Where
40 permit responsibilities are shared they must be documented as follows:

1. Permittees and Co-Permittees that are continuing coverage under this permit must submit a statement that describes the permit requirements that will be implemented by other entities. The statement must be signed by all participating entities. There is no deadline for submitting such a statement, provided that this does not alter implementation deadlines.
 2. Secondary Permittees must submit an NOI that describes which requirements they will implement and identify the entities that will implement the other permit requirements in the area served by the secondary Permittee's MS4. A statement confirming the shared responsibilities, signed all participating entities, must accompany the NOI. Secondary Permittees may amend their NOI, during the term of the permit, to establish, terminate, or amend shared responsibility arrangements, provided this does not alter implementation deadlines.
- C. Unless otherwise noted, all appendices to this permit are incorporated by this reference as if set forth fully within this permit.

S4. TOTAL MAXIMUM DAILY LOAD ALLOCATIONS

- A. The following requirements apply if an applicable Total Maximum Daily Load (TMDL) is approved for stormwater discharges from MS4s owned or operated by the Permittee. Applicable TMDLs or applicable TMDL requirements are TMDLs which that have been approved by the EPA and for which a Detailed Implementation Plan has been adopted by Ecology on or before the issuance date of this permit, or ~~which have been approved by EPA~~ prior to the date that the Permittee's application is received by Ecology, which ever is later. All Permittees must be in compliance with applicable TMDL requirements. All regulated municipalities (including those covered under other municipal permits) within the same area covered by a TMDL are encouraged to pool municipal resources and share permit responsibilities for more cost effective and coordinated implementation of applicable TMDL requirements.
- B. For TMDLs not listed in Appendix 6 of this permit, which is by this reference as if set forth fully herein, compliance with this permit shall constitute compliance with all applicable TMDLs. Permittees shall track actions required by this Permit that are relevant to applicable TMDLs within their jurisdiction. Each Permittee shall monitor implementation of actions required to achieve compliance with the TMDL. The status of TMDL implementation must be included as part of the annual reporting requirements submitted to Ecology. Documentation of all relevant actions implemented that affect MS4 discharges to the waterbody segment that is the subject of the TMDL must be included in the annual report
- C. For TMDLs and Permittees listed in Appendix 6, listed Permittees shall comply with the TMDL requirements identified in Appendix 6.
 1. If water quality monitoring is a specific requirement of a TMDL listed in Appendix 6, the Permittee must develop and implement a TMDL monitoring Quality

1 Assurance Project Plan (QAPP). The Permittee shall submit the TMDL QAPP no
2 later than 90 days after the effective date of this permit, unless otherwise specified
3 in Appendix 6. The monitoring plan shall be submitted to the Department in both
4 paper and electronic form and shall include:

- 5 a. A detailed discussion and description of the goal and objective(s), monitoring
6 (experimental) design, and sampling and analytical methods.
- 7 b. A list and maps of the selected TMDL monitoring sites.
- 8 c. The frequency of data collection to occur at each station or site and the number
9 and types of precipitation events to be targeted for sampling.
- 10 d. The method and location(s) of precipitation measuring devices.
- 11 e. The triggers for automated flow monitoring devices.
- 12 f. The parameters to be measured, as appropriate for and relevant to the TMDL.
- 13 g. The QAPP will be implemented beginning no later than 90 days after receiving
14 review approval from Ecology~~implemented beginning no later than 180 days~~
15 ~~after the effective date of this permit.~~

- 16 2. For TMDLs listed in Appendix 6, affected Permittees shall include, as part of the
17 Permittee's annual report to the Department, a TMDL Summary Implementation
18 Report. The report shall include the status and actions taken by the Permittee to
19 implement the TMDL. The TMDL Summary Report shall document relevant
20 actions taken by the Permittee that affect MS4 discharges to the waterbody segment
21 that is the subject of the TMDL. The report must also identify the status of any
22 applicable TMDL implementation schedule milestones.

- 23
24 D. For TMDLs that are approved by EPA after this permit is issued, the Department may
25 establish TMDL related permit requirements through future permit modification,
26 administrative orders, or when this permit is reissued. Permittees are encouraged to
27 participate in development of TMDLs within their jurisdiction and to begin
28 implementation. The Department may modify this permit to incorporate requirements
29 from TMDLs completed after the issuance of this permit if the Department determines
30 implementation of actions, monitoring or reporting necessary to demonstrate reasonable
31 further progress toward achieving TMDL waste load allocations, and other targets, are
32 not occurring and must be implemented during the term of this permit.

1 **S5. COMPLIANCE WITH STANDARDS [***TIER 1 version***]**

2 Municipalities regulated under this permit shall protect water quality by using controls that
3 reduce the discharge of pollutants from their municipal storm sewers to the Maximum
4 Extent Practicable. Compliance with the terms of this permit will satisfy this requirement.

5 **S5. COMPLIANCE WITH STANDARDS [***TIER 2 version***]**

6 In order to meet the goals of the Clean Water Act and address compliance with applicable
7 surface water, ground water and sediment management standards, municipalities regulated
8 under this permit must use controls that reduce the discharge of pollutants from their MS4
9 to the Maximum Extent Practicable (MEP). Compliance with the terms of this permit will
10 satisfy this requirement.

11 **S5. COMPLIANCE WITH STANDARDS [***TIER 3 version comments/edits***]**

12 ~~A. This permit does not authorize a violation of Washington State surface water quality~~
13 ~~standards (Chapter 173-201A WAC), ground water quality standards (Chapter 173-200~~
14 ~~WAC), sediment management standards (chapter 173-204 WAC), or human health-~~
15 ~~based criteria in the national Toxics Rule (Federal Register, Vol. 57, NO. 246, Dec. 22,~~
16 ~~1992, pages 60848-60923). [This statement is unnecessary for the successful~~
17 ~~implementation of this permit and only serves to complicate compliance and~~
18 ~~increase liability for the Permittee. Such a statement is not in the current permit.]~~

19 B.A. Existing Stormwater Discharges. In order to meet the goals of the Clean Water
20 Act and make progress towards compliance with applicable surface water, ground
21 water and sediment management standards for all existing stormwater discharges, each
22 Permittee is required to use controls to reduce the discharge of pollutants to the
23 Maximum Extent Practicable (MEP). Compliance with the terms of this permit will
24 satisfy this requirement.

25 ~~To meet the requirement to reduce the discharge of pollutants to the MEP, each~~
26 ~~Permittee shall comply with the requirements of this permit.~~

27 C.B. New Stormwater Discharges. All new stormwater discharges must comply with
28 all applicable surface water, ground water and sediment management standards. New
29 stormwater discharges, authorized or allowed by the Permittee, ~~shall not cause or~~
30 ~~contribute to a violation of~~ must comply with applicable standards. New stormwater
31 discharges include *new stormwater sources* and *new stormwater outfalls*, ~~including all~~
32 ~~sources contributing to the new stormwater outfall.~~ Compliance with *water quality*
33 *standards* shall be determined as follows:

- 34 1. If the new stormwater discharge is controlled in accordance with the technical
35 standards in Appendix 1 (which is by this reference as if set forth fully herein) or
36 equivalent standards approved by Ecology and in compliance with the terms of this
37 permit, then the discharge is in compliance unless *site-specific information* as in 2,
38 below, indicates otherwise. From the effective date of this permit until the date the
39 Permittee adopts the technical standards in this permit (or equivalent standards
40 approved by Ecology), including, at a minimum those in Appendix 1, the *Best*

management Practices (BMP) selection and site planning process, types of BMPs and design criteria for BMPs required under S7.C.5 of this permit, each Permittee must provide information to proponents of projects that will result in new stormwater discharges as follows:

- a. That new stormwater discharges ~~are not allowed to cause or contribute to a violation of~~ must comply with applicable surface water, ground water and sediment management standards, including the State's narrative criteria for water quality; and
 - b. If project proponents choose not to apply the technical standards referenced in paragraph S5.~~CB~~.1, above, then they must be prepared to demonstrate that the new stormwater discharge ~~does not cause or contribute a violation of~~ complies with applicable surface water, ground water and sediment management standards. Project proponents must be prepared to document how stormwater BMPs were selected, the pollutant removal expected from the selected BMPs, the technical basis which support the performance claims for the selected BMPs, and an assessment of how the selected BMPs will comply with applicable State water quality standards and satisfy the state requirement under Chapter 90.48 RCW to apply all known, available, reasonable methods of prevention, control and treatment (AKART) prior to discharge.
 - c. That project proponents may apply the technical standards referenced in paragraph S5.~~CB~~.1, above, as a means of achieving compliance; and
2. If, prior to authorization of a new stormwater discharge, site-specific information indicates that the technical standards in this permit, including, at a minimum Appendix 1 (or equivalent standards approved by Ecology), the BMP selection and site planning process, types of BMPs and design criteria for BMPs required under S7.C.5 of this permit are not sufficient to protect ~~beneficial uses~~ beneficial uses [needs to be defined] of waters of the state from impacts which cause or contribute to loss or impairment, then additional controls necessary to protect beneficial uses must be applied. The additional controls determined necessary to protect beneficial uses must be in place prior to the discharge from the new stormwater source or any new stormwater outfall.

~~D. Ecology may modify or revoke and reissue this general permit in accordance with General Condition G14., if Ecology becomes aware of additional control measures, management practices or other actions beyond what is required in this permit, that are necessary to reduce the discharge of pollutants to the MEP or to protect water quality. [This requirement is unnecessary since G14 already addresses it]~~

S5. COMPLIANCE WITH STANDARDS ***TIER 4 version comments/edits***

- A. This permit does not authorize a violation of Washington State surface water quality standards (Chapter 173-201A WAC), ground water quality standards (Chapter 173-200 WAC), sediment management standards (chapter 173-204 WAC), or human health-

1 based criteria in the national Toxics Rule (Federal Register, Vol. 57, NO. 246, Dec. 22,
2 1992, pages 60848-60923).

- 3 B. Existing Stormwater Discharges. In order to meet the goals of the Clean Water Act and
4 make progress towards compliance with applicable surface water, ground water and
5 sediment management standards for all existing stormwater discharges, each Permittee
6 is required to use controls to reduce the discharge of pollutants to the Maximum Extent
7 Practicable (MEP). Compliance with the terms of this permit will satisfy this
8 requirement.

9 ~~To meet the requirement to reduce the discharge of pollutants to the MEP, each~~
10 ~~Permittee shall comply with the requirements of this permit.~~

- 11 C. New Stormwater Discharges. All new stormwater discharges must comply with all
12 applicable surface water, ground water and sediment management standards. New
13 stormwater discharges, authorized or allowed by the Permittee, shall not cause ~~or~~
14 ~~contribute to~~ a violation of applicable standards. New stormwater discharges include
15 *new stormwater sources and new stormwater outfalls*, ~~including all sources~~
16 ~~contributing to the new stormwater outfall~~. Compliance with *water quality standards*
17 shall be determined as follows:

- 18 1. If the new stormwater discharge is controlled in accordance with the technical
19 standards in Appendix 1 (which is by this reference as if set forth fully herein) or
20 equivalent standards approved by Ecology and in compliance with the terms of this
21 permit, then the discharge is in compliance unless *site-specific information* as in 2,
22 below, indicates otherwise. From the effective date of this permit until the date the
23 Permittee adopts the technical standards in this permit (or equivalent standards
24 approved by Ecology), including, at a minimum, those in Appendix 1, the *Best*
25 *management Practices (BMP)* selection and site planning process, types of BMPs
26 and design criteria for BMPs required under S7.C.5 of this permit, each Permittee
27 must provide information to proponents of projects that will result in new
28 stormwater discharges as follows:
- 29 a. That new stormwater discharges are not allowed to cause ~~or contribute to~~ a
30 violation of applicable surface water, ground water and sediment management
31 standards, including the State's narrative criteria for water quality; and
- 32 b. That project proponents may apply the technical standards referenced in
33 paragraph S5.C.1, above, as a means of achieving compliance; and
- 34 c. If project proponents choose not to apply the technical standards referenced in
35 paragraph S5.C.1, above, then they must be prepared to demonstrate that the
36 new stormwater discharge does not cause ~~or contribute~~ a violation of applicable
37 surface water, ground water and sediment management standards. Project
38 proponents must be prepared to document how stormwater BMPs were selected,
39 the pollutant removal expected from the selected BMPs, the technical basis
40 which support the performance claims for the selected BMPs, and an
41 assessment of how the selected BMPs will comply with applicable State water
42 quality standards and satisfy the state requirement under Chapter 90.48 RCW to

1 apply all known, available, reasonable methods of prevention, control and
2 treatment (AKART) prior to discharge.

- 3 2. If, prior to authorization of a new stormwater discharge, site-specific information
4 indicates that the technical standards in this permit, including, at a minimum
5 Appendix 1, the BMP selection and site planning process, types of BMPs and
6 design criteria for BMPs required under S7.C.5 of this permit are not sufficient to
7 protect ~~beneficial uses~~ *beneficial uses* **[needs to be defined]** of waters of the state
8 from impacts which cause or contribute to loss or impairment, then additional
9 controls necessary to protect beneficial uses must be applied. The additional
10 controls determined necessary to protect beneficial uses must be in place prior to
11 the discharge from the new stormwater source or outfall.

- 12 D. ~~Ecology may modify or revoke and reissue this general permit in accordance with~~
13 ~~General Condition G14., if Ecology becomes aware of additional control measures,~~
14 ~~management practices or other actions beyond what is required in this permit, that are~~
15 ~~necessary to reduce the discharge of pollutants to the MEP or to protect water quality.~~
16 **[This requirement is unnecessary since G14 already addresses it]**

S6. MONITORING

[Although we have many concerns with the specific language of this condition, no edits are suggested at this time because (1) Ecology has acknowledged in permittee advisory meetings that this language needs further significant work, (2) Ecology has committed to work with Phase I and II permittee advisory groups to further refine the language before the next permit draft, and (3) Ecology should consider the alternative approach conceptually described in our comment letter.]

Ecology is requesting comments on the objectives of the proposed monitoring program.

We are interested in assessing the effect of implementing the stormwater management programs required under this permit. This includes looking at receiving waters, stormwater quality and BMP effectiveness. The information gained will be used to provide feedback for local stormwater management programs and Ecology's permitting program.

Should Ecology require integrated, collaborative, WRIA-scale monitoring programs? WRIA-scale monitoring programs could eventually integrate monitoring among all municipal stormwater permittees, Phase I, Phase II and WSDOT. Or are independent monitoring programs adequate to development the information basis for providing feedback on stormwater management programs?

The Permittees, Port of Seattle and Port of Tacoma shall develop and implement a comprehensive long-term monitoring program. The monitoring program shall include two elements: stormwater and receiving water monitoring, and BMP effectiveness monitoring. The monitoring program must include long-term monitoring and may include short term studies. The results of the monitoring program shall be used to support the adaptive management process and lead to refinements of the Stormwater Management Program. The monitoring program must include Quality Assurance Project Plans (QAPPs) for each monitoring objective, written in accordance with Ecology's QAPP guidelines at <http://www.ecy.wa.gov/biblio/0403030.html>. The monitoring program must be developed by qualified staff or contractors that have experience in applying Ecology's or EPA's QAPP Guidelines.

A. Stormwater and Receiving Water Monitoring

1. The Permittees, Port of Seattle and Port of Tacoma shall develop and implement comprehensive, long-term water quality monitoring program during the term of this permit. The monitoring program shall be designed to contribute to answering the following questions about the effectiveness of the municipal stormwater permitting and program efforts in protecting and restoring water quality and beneficial uses:

1 a. Is implementation of the Stormwater Management Program preventing impacts
2 from the effects of new development by controlling construction and post-
3 construction *runoff*?

4 b. Are the Permittees preventing impacts and seeing improvements to beneficial
5 uses by implementing a comprehensive stormwater management program?

6 2. Monitoring Program Coordination and Planning

7 The Permittees and ports may choose to develop the monitoring program, conduct
8 the monitoring, and report results through an integrated, long-term, water quality
9 monitoring program in collaboration with the other Phase I and Phase II MS4
10 permittees in the Water Resource Inventory Area(s) (WRIA) in which their MS4 is
11 located; or they may independently develop a monitoring program, conduct the
12 monitoring, and report results, in accordance with the requirements, below.

13 If a Permittee chooses to participate in the development of an integrated water
14 quality monitoring program in collaboration with the other Permittees in the WRIA
15 in which their MS4 is located, the collaborative effort shall be conducted as
16 follows:

- 17 a. Permittees that choose to participate in the development of an integrated water
18 quality monitoring program shall form a committee for this purpose. The
19 participating Permittees shall submit a written agreement, signed by all
20 participants, that includes the monitoring program development schedule and
21 responsibilities.
- 22 b. The development and implementation of the integrated monitoring program
23 shall be supported by the combined resources of all the participating Permittees.
- 24 c. One permittee shall be identified as the lead permittee for purposes of reporting.
25 The lead permittee shall be responsible for the overall monitoring program
26 management and shall prepare and submit to the Department unified monitoring
27 program plans and reports.

28 The activities of the lead permittee shall include, but not be limited to, the
29 following:

- 30 i. Coordinate and conduct Monitoring Committee meetings on an as needed
31 basis.
- 32 ii. Coordinate monitoring activities and participate in any subcommittees
33 formed as necessary to coordinate monitoring activities.
- 34 iii. Provide technical and administrative support and inform the other
35 permittees of the progress of monitoring activities or studies.
- 36 iv. Coordinate all the activities with the Department, including the submittal of
37 all reports and plans developed by the committee.
- 38 v. Obtain public input for any proposed monitoring plans, where applicable.
- 39 vi. Cooperate in the WRIA-based monitoring program.

- 1 d. The non-lead permittees on the committee shall be responsible for
2 implementing monitoring programs and coordinating among their internal
3 departments and agencies, as appropriate, to facilitate the implementation of the
4 monitoring program.

5 The activities of the non-lead permittees shall include, but not be limited to, the
6 following:

- 7 i. Participate in a Monitoring Committee comprised of the lead permittee
8 and one representative of each of the other permittees. The lead permittee
9 will take the lead role in initiating and developing the WRIA-wide
10 monitoring activities necessary to comply with S6.A above. The
11 committee shall meet on a regular basis (at least six times per year). Each
12 permittee shall designate one official representative to the Monitoring
13 Committee.
- 14 ii. Review, approve, and comment on all plans, strategies, and monitoring
15 programs, as developed by the lead permittee or any permittee
16 subcommittee to comply with this permit.
- 17 iii. Conduct and coordinate with the lead permittee any monitoring and
18 characterizations needed to implement the monitoring program.
- 19 iv. Prepare and submit all required reports to the lead permittee in a timely
20 manner.

- 21 3. The Permittees and ports shall support the monitoring planning efforts by providing
22 the following resources and information:

23 a. Counties

- 24 i. Each County shall identify potential monitoring stations in receiving
25 waters and in outfalls associated with those receiving waters, in small sub-
26 basins less than ten square miles in area and representing each of the
27 following land uses:
- 28 (1) Medium- to high-density urbanized,
29 (2) Areas of new development (urbanizing), and
30 (3) Low-density residential basins outside the urban growth boundary.
- 31 ii. Each County shall provide maps and staff assistance as necessary to
32 facilitate the evaluation and create a list of potential sites, and to determine
33 land uses in the contributing areas.

34 b. Cities

- 35 i. Each City shall identify potential monitoring stations in receiving waters and
36 in outfalls associated with those receiving waters, in small sub-basins less
37 than ten square miles in area and representing each of the following land
38 uses:

- 1 (1) High-density urbanized, and
2 (2) Medium- to high-density urbanized.
- 3 ii. Each City shall provide maps and staff assistance as necessary to facilitate
4 the evaluation and create a list of potential sites, and to determine land
5 uses in the contributing areas.
- 6 c. Ports of Seattle and Tacoma
- 7 i. Each Port shall identify potential outfalls for water quality/toxicity
8 monitoring stations and in-line sediment traps.
- 9 ii. Each Port shall provide maps and staff assistance as necessary to facilitate
10 the evaluation of potential sites and to determine land uses in the
11 contributing areas.
- 12 d. Other secondary Permittees will have no responsibilities for monitoring under
13 this section during this permit term, however, they are required to provide
14 information, maps and access for sampling efforts, as necessary. Other
15 secondary Permittees are encouraged to participate in the monitoring program.
- 16 e. The monitoring program shall include confirmed sampling locations distributed
17 among the geographical areas covered by the permit and among the land uses
18 listed in 3.a.i. and 3.b.i. above. Each sub-basin selected (except for the in-line
19 sediment traps at the Ports) must include a receiving water sampling site and
20 should include a minimum of two outfalls.
- 21 4. Monitoring Program Development, Review, and Approval

22
23 Ecology is requesting comments on the question of reviewing and approving the
24 Monitoring Programs.

25 Should the Monitoring Programs be reviewed and approved? If so, what should
26 be the standard for review? Who is best capable of doing the review? Should an
27 independent entity review the monitoring program? Or should Ecology build up
28 expertise and do the review?

29 An alternative to reviewing and approving the monitoring program is to include
30 more detailed criteria for the monitoring program in the permit. That criteria
31 would need to be developed before the permit is issued.

32
33 The monitoring program and implementation plan shall be submitted no later than 2
34 years after the effective date of this permit. The monitoring program shall be
35 submitted in both paper and electronic form and shall include all the required
36 elements of the QAPP, including:

- a. A detailed discussion and description of the purpose, design, and methods of the water quality monitoring program.
- b. A list and maps of all selected receiving water and outfall sampling sites.
- c. The frequency and type of sampling (data collection and analytical methods) or other monitoring effort to occur at each station or site, including but not limited to:
 - i. Sampling in the receiving waters:
 - (1) Benthic invertebrates (RIV-PAC, fine sediment and temperature metrics),
 - (2) Embeddedness
 - (3) Temperature
 - (4) pH
 - (5) Hardness
 - ii. Establishing physical conditions and trends in the stream channel. The monitoring program shall develop this strategy using information from “Monitoring Urban Streams: Strategies and Protocols for Humid-Region Lowland systems” (Environmental Monitoring and Assessment, **71**: 143-164, 2001.)
 - iii. Flow-weighted composite storm sampling, and base flow sampling, in outfalls for the following constituents/parameters as appropriate for the monitoring objective: (1) Flow, Hydrograph data including antecedent dry period, rainfall and runoff, discussion of representativeness of storm samples and storm types,
 - (2) TSS and turbidity,
 - (3) Conductivity if tidally influenced,
 - (4) Chloride,
 - (5) Metals (including, at a minimum, total and dissolved copper, zinc, , cadmium, and lead; and mercury sampling as appropriate in some high density commercial or industrial urban settings) and hardness,
 - (6) Base/Neutral/Acids (BNAs),
 - (7) Pesticides (commercially available and/or known to be applied roadside),
 - (8) Nutrients (including total nitrogen, phosphorus, nitrate/nitrite and orthophosphate),
 - (9) Biochemical oxygen demand (BOD), and
 - (10) Toxicity testing of a “seasonal first-flush” storm event (as defined by Ecology).

- iv. Grab samples in outfalls for the following constituents/parameters as appropriate for the monitoring objective:
 - (1) Total Petroleum Hydrocarbons (TPH) using NWTPH-Gx and NWTPH-Dx., and
 - (2) E. coli and Enterococci bacteria.
- v. For in-line sediment traps, percent solids, pH, metals, and BNAs as appropriate for the contributing area land use.
- d. The number of each type of event (e.g. baseflow; “seasonal first-flush” and/or other dry season rainfall; wet season rainfall) to be sampled at each location for each of the types of sampling identified in part C above.
- e. An approved or final monitoring plan must be adopted no later than 30 months after the effective date of this permit.
- f. Full implementation of the stormwater and receiving water monitoring program shall begin no later than 36 months after the effective date of this permit. The third party or parties selected to develop the monitoring plan may continue to be utilized to collect and analyze the data and to write the subsequent reports required under this permit.

5. Monitoring Program Reporting Requirements

The stormwater monitoring report shall be submitted by December 31 each year, beginning in 2009. Each report shall include all monitoring data collected during the preceding period from October 1 through September 30. Each report shall also integrate data from earlier years into the analysis of results, as appropriate. Permittees that choose to participate in an integrated water quality monitoring program shall submit a single integrated monitoring report. Reports shall be submitted in both paper and electronic form and shall include:

- a. A summary of the purpose, design, and methods of the monitoring program,
- b. The status of implementing the monitoring program,
- c. A comprehensive data and QA/QC report for each part of the monitoring program, with an explanation and discussion of the results of each monitoring project,
- d. An analysis of the results of each part of the monitoring program, including any identified water quality problems or improvements or other trends in stormwater or receiving water quality, and
- e. Recommended future actions based on the findings.
- f. If the Permittee monitors any pollutant more frequently than required by the required monitoring program, then the results of this monitoring shall be included in the report. If the Permittee conducts any other stormwater monitoring in addition to that required in the required monitoring program, then it shall provide a description of the additional monitoring in the report.

1
2 B. Best Management Practice (BMP) Effectiveness Monitoring Program
3

4 There is a need for more local information about the effectiveness of treatment and flow
5 control BMPs. Much of the data about BMP effectiveness comes from other parts of
6 the country *and is based on a variety of different design criteria, rainfall types, and soil*
7 *types - factors that can influence performance and make extrapolations to our situation*
8 *questionable*. Given the need for more data that is generated locally, how should this
9 need be met?

10 The municipal stormwater permittees are the governmental entities that permit and
11 regulate land development, and are responsible for the quality of water discharged to
12 waters of the state through their storm sewer systems. Therefore, it seems appropriate
13 to have the permittees primarily responsible for determining the effectiveness of
14 measures intended to reduce the discharge of pollutants to the Maximum Extent
15 Practicable. Is it appropriate to include BMP effectiveness monitoring as a requirement
16 of this permit?

17 The Permittees and ports shall develop and implement a comprehensive, long-term
18 BMP effectiveness monitoring program as described in this section. Structural Runoff
19 Treatment BMPs, and Flow Reduction Strategies will be evaluated. The primary
20 purpose of the BMP effectiveness monitoring program is to provide a feedback loop for
21 adaptive management of the Permittees' stormwater management programs and the
22 Department of Ecology's municipal stormwater permitting program. The BMP
23 effectiveness monitoring program shall be designed to contribute to answering the
24 following questions about the short term and long term performance of BMPS in
25 protecting and restoring water quality and beneficial uses:

- 26 a. Is implementation of the Stormwater Management Program preventing impacts
27 from the effects of new development by controlling construction and post-
28 construction runoff?
- 29 b. Are the Permittees preventing impacts and seeing improvements to beneficial
30 uses by implementing a comprehensive stormwater management program?

31 1. BMP Effectiveness Monitoring - Program Coordination and Planning.

32 The Permittees and ports may choose to develop the BMP effectiveness monitoring
33 program, conduct the monitoring, and report results through a single long-term
34 monitoring program that will be supported by the combined resources of all of the
35 Permittees and the ports; or they may independently develop a BMP effectiveness
36 monitoring program, conduct the monitoring, and report results, in accordance with
the requirements, below. If a collaborative approach is chosen, the committee
process outlined in S8.A.2., above, shall be followed.

The BMP effectiveness monitoring program shall be designed to evaluate all of the BMPs listed below, at no less than 2 sites per BMP, and 6 flow reduction strategies. The monitoring program must include QAPPs for each BMP and flow reduction strategy being monitored. The monitoring program must be developed by qualified staff or contractors that have experience with Ecology's or EPA's Guidelines for Quality Assurance Project Plans (QAPP). The Permittees shall support monitoring planning efforts by providing the following resources and information:

a. Responsibilities of Counties, Cities, and Ports of Seattle and Tacoma

- i. Each Permittee shall identify potential sites where the following types of BMPs are in use or planned for installation (the BMPs shall have been/will be designed using criteria similar to the 2005 Western Washington Stormwater Management Manual). QAPPs for short detention time BMPs should follow the TAPE protocols. QAPPs for long detention time BMPs will need to develop sampling protocols. BMP treatment types:

(1) Basic Treatment

Biofiltration swale

Filter strip

Basic wetpond

Treatment wetland

Sand filter

(2) Metals/Phosphorus Treatment

Amended sand filter

Two facility treatment train

Compost amended filter strips

Bioretention

Large wetpond

(3) Oil Control

Linear sand filter

Catch basin insert

- ii. Each Permittee shall provide a prioritized list of the types of structural treatment BMPs to monitor.

- iii. Each City and County Permittee shall identify and describe a flow reduction strategy that is in use or planned for installation in their jurisdiction, and is suitable for monitoring.

1 iv. Each Permittee shall provide staff assistance as necessary to facilitate the
2 evaluation and selection of potential sites.

3 b. Other special Permittees will have no responsibilities for BMP effectiveness
4 monitoring under this section during this permit term.

5 2. BMP Effectiveness Monitoring Program Development, Review, and Approval

6
7 Ecology is requesting comments on the question of reviewing and approving the
8 Monitoring Programs.

9 Should the Monitoring Programs be reviewed and approved, prior to
10 implementation? If so, what should be the standard for review? Who is best capable
11 of doing the review? Should an independent entity review the monitoring program?
12 Or should Ecology build up expertise and do the review?

13 An alternative to reviewing and approving the monitoring program is to include
14 more detailed criteria for the monitoring program in the permit. That criteria would
15 need to be developed before the permit is issued.

16
17 The Permittees and ports shall submit a BMP effectiveness monitoring program
18 plan no later than 2 years after the effective date of this permit. The monitoring plan
19 shall be submitted in both paper and electronic form and shall include:

- 20 a. A detailed discussion and description of the purpose, design, and methods of the
21 BMP effectiveness monitoring program, including Quality Assurance Project
22 Plans (QAPPs) for each BMP being monitored.
- 23 b. A detailed discussion and description of the purpose, design, and methods of the
24 flow reduction strategy monitoring program, and QAPPs for each flow
25 reduction strategy being monitored.
- 26 c. A list and maps of all proposed and selected monitoring sites, including the date
27 of installation/construction.
- 28 d. The Permittees' prioritized lists of structural treatment BMPs to monitor.
- 29 e. Records of inspection and maintenance on each of the BMPs selected.
- 30 f. The methods, protocols, analytical laboratory methods to be used.
- 31 g. The frequency of data collection to occur at each station or site and the number
32 and types of precipitation events to be targeted for sampling.
- 33 h. The parameters to be measured in the inflow to and outflow from each BMP, or
34 flow reduction strategy, as appropriate for the contributing area land use and
35 performance expectations of the selected BMP:

- i. Flow (rate, duration and volume)
- ii. Hydrograph data including antecedent dry period, rainfall and runoff, discussion of representativeness of storm samples and storm types.
- iii. TSS,
- iv. pH, hardness, and temperature,
- v. Metals (including, at a minimum, total and dissolved copper, zinc, arsenic, cadmium, chromium, and lead),
- vi. Total Petroleum Hydrocarbons (NWTPH-Gx and NWTPH-Dx),
- vii. BNAs,
- viii. Pesticides (commercially available and/or known to be applied roadside),
- ix. Nutrients (including total nitrogen, total phosphorus, nitrate/nitrite and orthophosphate),
- x. Biochemical oxygen demand (BOD),
- xi. E. coli and Enterocci bacteria, and/or
- xii. Toxicity
- i. The BMP effectiveness monitoring program must also describe a framework for Phase II Permittees in western Washington to enhance BMP effectiveness monitoring during future permit cycles.
- j. An approved BMP effectiveness monitoring plan must be adopted by no later than 30 months after the effective date of this permit.
- k. Full implementation of the stormwater and receiving water monitoring program shall begin no later than 36 months after the effective date of this permit. . The third party or parties selected to develop the monitoring plan may continue to be utilized to collect and analyze the data and to write the subsequent reports required under this permit.

3. BMP Effectiveness Monitoring Reporting Requirements

The BMP effectiveness monitoring report shall be submitted by December 31 each year, beginning in 2009. Each report shall include all monitoring data collected during the preceding period from October 1 through September 30. Each report shall also integrate data from earlier years into the analysis of results, as appropriate. Permittees that choose to participate in an integrated water quality monitoring program shall submit a single integrated monitoring report. Reports shall be submitted in both paper and electronic form and shall include:

- a. A summary of the purpose, design, and methods of the monitoring program,
- b. The status of implementing the monitoring program,
- c. The status of implementing the QAPP for each part of the monitoring program, with an explanation and discussion of the results of each component,

- d. An analysis of the results of each component of the monitoring program, including any identified BMP performance problems, and
- e. Recommended future actions based on the findings.

S7. STORMWATER MANAGEMENT PROGRAM

Note to Reviewers:

Ecology is specifically requesting comments on the organization of the Stormwater Management Program in the Phase I and Western Washington Phase II permits.

The current organization in the Phase II permit follows the EPA six minimum measures, while the organization for the Phase I municipal stormwater permit reflects the old permit and other factors. Should the two permits have a consistent organizational structure/outline for the stormwater management program? If so, should the structure follow the organization either the Phase I or Western Washington Phase II permit, or a different structure altogether?

- A. Each Permittee shall implement a Stormwater Management Program (SWMP) during the term of this permit. For the purpose of this permit a stormwater management program is a set of actions comprising the *components* listed in S7.B., S7.C.1 through S7.C.10., and additional actions and activities, where necessary, to meet the requirements of applicable TMDLs.
 - 1. Each Permittee shall prepare written documentation of their SWMP and submit it to Ecology in written and electronic formats with the first year annual report, in accordance with the requirements in S9 REPORTING REQUIREMENTS. The documentation of the SWMP shall be organized according to the program components in S7.C., and shall be updated annually. The SWMP documentation shall include a description of each of the program components included in S7.C, and any additional actions necessary to meet the requirements of applicable TMDLs.
 - 2. Each permittee shall track the cost of development and implementation of the SWMP required by this section. This information shall be included in the annual report.
- B. The SWMP shall be designed to protect water quality by reducing ~~reduce~~ the discharge of pollutants from MS4s to the maximum extent practicable ~~and protect water quality~~. [The Clean Water Act protects water quality by requiring that the discharge of pollutants from MS4's be reduced to the maximum extent practicable. The protection of water quality is not separate from MEP.]

1 Permittees are to continue implementation of existing stormwater management
2 programs until they begin implementation of the updated stormwater management
3 program in accordance with the terms of this permit, including implementation
4 schedules.

- 5 C. The SWMP shall include the components listed below. All components are mandatory
6 and must be implemented by each Permittee. The requirements of the stormwater
7 management program shall apply to municipal separate storm sewers and areas served
8 by municipal separate storm sewers owned or operated by each Permittee. Co-
9 Permittees and Secondary Permittees are responsible for implementation of Stormwater
10 Management Programs as indicated in Special Condition S8.

11 1. Legal Authority

- 12 a. No later than the effective date of this permit, each Permittee must be able to
13 demonstrate that they operate pursuant to adequate legal authority which
14 authorizes or enables the Permittee to control, within the limits of its
15 jurisdiction, discharges to and from municipal separate storm sewers owned or
16 operated by the Permittee. This legal authority, which may be a combination of
17 statute, ordinance, permit, contracts, orders, interagency agreements, or similar
18 means, shall include the ability to:

- 19 ~~b. This legal authority, which may be a combination of statute, ordinance, permit,~~
20 ~~contracts, orders, interagency agreements, or similar means, shall include the~~
21 ~~ability to:~~

- 22 i. Control the contribution of pollutants to municipal separate storm sewers
23 owned or operated by the Permittee from stormwater discharges associated
24 with industrial activity, and control the quality of stormwater discharged
25 from sites of industrial activity;

- 26 ii. Prohibit illicit discharges to the municipal separate storm sewer owned or
27 operated by the Permittee;

- 28 iii. Control the discharge of spills and the dumping or disposal of materials
29 other than stormwater into the municipal separate storm sewers owned or
30 operated by the Permittee;

- 31 ~~iv. Control the contribution of pollutants from one portion of the municipal~~
32 ~~separate storm sewer system to another portion of the municipal separate~~
33 ~~storm sewer system, where there is a physical interconnection between~~
34 ~~municipal separate storm sewers owned or operated by the municipality, and~~
35 ~~those of an adjoining municipality or other public entity, including co-~~
36 ~~Permittees; [Moved to S7.C.1.b. below]~~

- 37 ~~iv.~~ Require compliance with conditions in ordinances, permits, contracts, or
38 orders; and,

- 39 ~~vi.~~ Within the limitations of state law, carry out all inspection, surveillance, and
40 monitoring procedures necessary to determine compliance and non-
41 compliance with permit conditions, including the prohibition on illicit

discharges to and from the municipal separate storm sewer and compliance with local ordinances.

b. No later than 24 months after the effective date of the permit, the permittee shall develop the necessary contracts, interagency agreements, or other similar means to control the contribution of pollutants from one portion of the municipal separate storm sewer system to another portion of the municipal separate storm sewer system or to a POTW system, where there is a physical interconnection between municipal separate storm sewers owned or operated by the municipality, and those of an adjoining municipality or other public entity, including co-Permittees.

c. Each Permittee shall submit, no later than ~~one-two~~ years from the effective date of the permit, a statement ~~by its legal counsel~~ that the Permittee has all necessary legal authority to comply with this permit. [No legal counsel would be willing or able to make such a statement.]

2. Gathering, Maintaining, and Using Adequate Information

The SWMP shall include an ongoing program for gathering, maintaining, and using adequate information to conduct planning, priority setting, and program evaluation activities. The information and its form of retention shall include but not be limited to:

a. No later than 2 years from the effective date, each permittee shall map all known municipal separate storm sewer outfalls owned or operated by the permittee (or connections to outfall systems that are not owned or operated by the permittee) and receiving waters, and structural stormwater BMPs owned, operated, or maintained by the Permittee. [Not all outfalls are accessible by the permittee. Many MS4 outfalls, where the stormwater conveyance system discharges to the receiving water, are located on private properties and the permittee does not have legal access.]

b. No later than 4 years from the effective date of this permit, and within urban/higher density rural subbasins, [see definition inserted in definitions section] each permittee shall map tributary conveyances, the associated drainage areas, and land use of all municipal separate storm sewer outfalls owned or operated by the permittee (or connections to outfall systems that are not owned or operated by the permittee) with a 24" inches nominal diameter or larger, or an equivalent cross-sectional area for non-pipe systems, and indicate type, material, and size where known. All regulated municipalities (including those covered under other municipal permits) within the same WRIA are encouraged to pool municipal resources for more cost effective and coordinated implementation of this permit responsibility.

c. No later than 4 years from the effective date of this permit each permittee shall map areas served by the Permittee's MS4 that discharge stormwater to groundwater but are not designed to discharge through facilities regulated under the UIC program.

- 1 d. Map(s) depicting existing land use
- 2 e. Map(s) depicting zoning.
- 3 f. No later than 2 years from the effective date each permittee shall establish,
- 4 maintain and make available to the public, a data base, including at least the
- 5 following information. All Regulated municipalities (including those covered
- 6 under other municipal permits) within the same WRIA are encouraged to pool
- 7 municipal resources for more cost effective and consistent implementation of
- 8 this permit responsibility on a watershed basis.
- 9 i. Precipitation records.
- 10 ii. Stormwater quality and quantity records.
- 11 iii. Water quality and physical characteristics of receiving water that may be
- 12 impacted by stormwater.
- 13 g. Each Permittee shall make available to Ecology, upon request, all available GIS
- 14 data layers depicting outfall locations, tributary conveyances, structural
- 15 stormwater BMPs, and, if known, the associated drainage areas of 24”
- 16 municipal separate storm sewer outfalls (or connections to outfall systems that
- 17 are not part of the permittee's municipal separate storm sewer system). GIS data
- 18 shall be submitted in the format specified by Ecology at:
- 19 <http://www.ecy.wa.gov/services/gis/data/standards.htm>. [The Spatial Data
- 20 Standards for submittal on this Dept of Ecology web page are not
- 21 acceptable. The page states that NGVD 29 is the vertical datum. The
- 22 vertical datum should be NAVD-88. NGVD 29 is a datum with well-known
- 23 flaws and limitations, it has been superseded by NAVD-88 and its use for
- 24 any purpose other than historical reference is strongly discouraged.
- 25 NAVD-88 is compatible with GPS derived measurements and is required to
- 26 meet federal data standards. The page states that the coordinate zone is
- 27 Washington South. This is inconsistent with RCW 58.20 and with King
- 28 County data standards. While Olympia is in Washington South, King
- 29 County is by RCW Washington North zone. The Washington State Plane
- 30 Coordinate System was designed as a two-zone system to keep scale errors
- 31 below 1:10,000. Use of South Zone as a state wide single zone defeats the
- 32 logical design of the number system (obvious difference between N and E
- 33 coordinates) as well as violating the scale factor design. Use of the South
- 34 Zone for statewide reference is not advisable. Discussions are being held
- 35 pursuant to establishing a Single-Zone system for Washington. If that
- 36 conversion happens, agencies will need to convert to the new system within
- 37 some timeframe that will be determined at a later date. Further, all data
- 38 kept for King County GIS purposes are in Washington North by policy.
- 39 Coordinates should be reported in the zone specified by RCW 58.20.]
- 40 Notification of updated GIS data layers shall be included in annual reports.
- 41 h. Upon request, and to the extent appropriate, Permittees shall provide mapping
- 42 information to Co-Permittees and Secondary Permittees and may charge for the

1 Permittee's costs of providing the data and may include overhead costs for
2 maintenance and upkeep of the mapping system.

3 3. Coordination

4 a. The SWMP shall include coordination mechanisms among Permittees, co-
5 Permittees, and secondary Permittees to encourage coordinated stormwater-
6 related policies, programs and projects within a watershed. The SWMP shall
7 also include coordination among departments within each jurisdiction to ensure
8 compliance with the terms of this permit.

9 b. Minimum Performance Measures:

10 i. No later than ~~6 months~~12 months after the effective date of this permit,
11 establish, in writing, and begin implementation of, intragovernmental
12 (internal) coordination procedures to ensure compliance with the terms of
13 this permit.

14 ii. No later than ~~6 months~~24 months after the effective date of this permit,
15 establish, in writing, and begin implementation of, intergovernmental
16 coordination procedures on stormwater management, including

- 17 • Coordination mechanisms clarifying roles and responsibilities to
18 ensure the control of pollutants between physically interconnected
19 MS3s and POTW systems.
- 20 • Coordinating stormwater management activities, for *shared*
21 *waterbodies*, among Permittees, to avoid conflicting plans, policies
22 and regulations.
- 23 • Coordination necessary to develop an integrated monitoring program.

24
25 4. Public Involvement and Participation

26 [This requirement is an artifact of the first Phase I permits, which gave great
27 flexibility to permittees to create their SWMPs. As the permit becomes more
28 prescriptive, the role for public involvement and participation in the
29 development of SWMPs is somewhat diminished. The scope of the public
30 involvement program should be reduced accordingly.]

31 a. The SWMP shall provide ongoing opportunities for public involvement as
32 appropriate in the ~~Permittee's decision-making processes involving~~ stormwater
33 management programs and the priorities for appropriate aspects of those
34 programs, through advisory councils, watershed committees, participation in
35 developing rate structures, stewardship programs, environmental activities, or
36 other similar activities.

37 b. Minimum performance measures:

38 i. No later than 6 months after the effective date of this permit, adopt a
39 process to create opportunities for public participation in the decision

1 making processes involving the development, implementation and update
2 of the permittees SWMP. Each Permittee must develop and implement a
3 process for consideration of public comments on their SWMP. [Given the
4 more prescriptive nature of this permit, public involvement in
5 decision making on the SWMP will likely be limited to that which
6 occurs as part of the annual budget process when the extent of
7 funding is determined for the programs and actions required by this
8 permit.]

9 ii. No later than 12 months after the effective date of this permit, begin
10 implementation of the public involvement program.

11 iii. Each Permittee must make their SWMP, the SWMP documentation
12 required under S7.A(1) and all submittals required by this permit,
13 including annual reports, available to the public on the permittees' website
14 or submitted in electronic format to the Department for posting on the
15 Department's website.

16 5. Controlling Runoff from New Development, Redevelopment and Construction Sites

17 a. The SWMP shall include a program to prevent and control the impacts of runoff
18 from new development, redevelopment, and construction activities. The
19 program shall apply to private and public development, including roads.

20 b. Minimum performance measures:

21 i. The Minimum Requirements, thresholds, and definitions in Appendix 1
22 (which is by this reference as if set forth fully herein), for new development,
23 redevelopment, and construction sites must be included in ordinance or other
24 enforceable documents adopted by the local government. More stringent
25 requirements may be used, and/or certain requirements may be tailored to
26 local circumstances through the use of basin plans or other similar water
27 quality and quantity planning efforts. Such local requirements and thresholds
28 must provide equal protection of receiving waters and equal levels of
29 pollution control as compared to Appendix 1.

30 ii. Adjustment and variance criteria equivalent to those in Appendix 1 must be
31 included.

32 iii. The local requirements must include a site planning process and BMP
33 selection and design criteria that, when used to implement the minimum
34 requirements in Appendix 1 (or equivalent requirements approved by
35 Ecology) on a site specific basis, will achieve the goals of these BMPs to
36 protect water quality, reduce by reducing the discharge of pollutants to the
37 maximum extent ~~practical~~practicable, and satisfy the state requirement under
38 ~~chapter 90.48 RCW to apply all known, available, reasonable methods of~~
39 ~~prevention, control and treatment (AKART) prior to discharge.~~ Permittees
40 must document how the criteria and requirements will protect water quality,

~~reduce the discharge of pollutants to the maximum extent practical, and satisfy the state AKART requirements~~meet the BMP protection goals.

Permittees who choose to use the site planning process, and BMP selection and design criteria in the 2005 *Stormwater Management Manual for Western Washington*, or an equivalent manual approved by the Department, may cite this choice as their sole documentation to meet this requirement.

- iv. The program must allow non-structural preventive actions and source reduction approaches such as *Low Impact Development* Techniques (LID), measures to minimize the creation of impervious surfaces, and measures to minimize the disturbance of soils and vegetation.
- v. Deadlines for and Review of Local Manual and Ordinances. No later than 12 months from the effective date of this permit, each Permittee must adopt a local program that meets the requirements in S7C.5.ab.i through iv., above. Ecology review and approval of the local manual and ordinances is required. To ensure compliance with the 12 month deadline, Permittees may use the following review process:
 - (1) The Permittee submits draft enforceable requirements, technical standards and manual to Ecology no later than 8 months after the effective date of this permit. Ecology will review and provide written response to the Permittee.
 - (2) If this review process is followed, the deadline for adoption of enforceable requirements, technical standards and manual shall be automatically extended by the number of calendar days that Ecology exceeds a 60 day period for written response.
- vi. No later than 12 months after the effective date of this permit, the program must establish legal authority, through approval of new development, to inspect private stormwater facilities and enforce maintenance standards.
- vii. No later than 18 months after the effective date of this permit, the program must include a process of permits, plan review, inspections, and enforcement capability to meet the following standards for both private and public projects, using *qualified personnel* (staff or qualified contractors):
 - (1) Review all stormwater site plans for proposed development activities that meet the thresholds in Appendix 1. All Regulated municipalities (including those covered under other municipal permits) within the same WRIA are encouraged to pool municipal resources for more cost effective and coordinated implementation of this permit responsibility.
 - (2) Inspect prior to clearing and construction, all development sites that are hydraulically near a sediment/erosion-sensitive feature or have a high potential for sediment transport as determined through plan

review based on definitions and requirements in Appendix 2 (or equivalent as approved by DOE) [King County's newly adopted Critical Areas Ordinance and rules will provide equal or better protection], which is by this reference as if set forth fully herein.

(3) Inspect all permitted development sites during construction to ensure proper installation and maintenance of required erosion and sediment controls. Enforce as necessary based on the inspection. This inspection may be combined with other inspections provided it is still performed by qualified personnel (staff or contractors).

(4) Inspect all development sites upon completion of construction and prior to final approval/occupancy to ensure proper installation of permanent erosion controls and stormwater facilities/BMPs. Enforce as necessary based on the inspection. Also, ensure a maintenance plan is completed and responsibility for maintenance is assigned. This inspection may be combined with other inspections provided it is still performed by qualified personnel (staff or contractors).

(5) Compliance with the inspection requirements of S7.C.5.(b)vii.(2), (3), and (4), above shall be determined by the presence of an established inspection program designed to inspect all sites.

(6) Each Permittee shall track and maintain records of all inspections and enforcement actions.

viii. No later than the effective date of this permit, the Permittee must provide the "*Notice of Intent for Construction Activity*" and/or copies of the "*Notice of Intent for Industrial Activity*" to representatives of proposed new development and redevelopment. Permittees will continue to enforce local ordinances controlling runoff from construction sites that also require coverage under the Industrial Stormwater General Permit and/or the Construction Stormwater General Permit.

ix. Each permittee must provide *adequate training for staff* involved in Controlling Stormwater Runoff from New Development, Redevelopment, and Construction Sites, including permitting, plan review, construction site inspections, and enforcement, to carry out the provision of this program component.

6. Structural Stormwater Controls

a. The SWMP shall include a program to construct structural stormwater controls to address impacts to beneficial uses resulting from disturbances to watershed hydrology and stormwater pollutant discharges. This program shall consider impacts caused by stormwater discharges from areas of existing development, including runoff from highways, streets and roads owned or operated by the Permittee, and areas of new development, where impacts are anticipated as development proceeds. This program shall address impacts that are not adequately controlled by the other required actions of the SWMP, and shall

1 identify necessary actions and an implementation schedule. It is understood that
2 mitigating all existing development to current standards is not feasible and that
3 only the highest-ranked problems can be addressed

4 The program shall include the construction of projects such as regional flow
5 control facilities, water quality treatment facilities, and retrofitting of existing
6 flood control facilities. Permittees should also consider other means to address
7 impacts from existing development, such as reduction of hydrologic changes
8 through the use of on-site (infiltration and dispersion) stormwater management
9 BMPs and site design techniques, habitat acquisition or restoration of forest
10 cover and riparian buffers, for compliance with this requirement. Permittees
11 may not use in-stream culvert replacement projects for compliance with this
12 requirement.

13 b. Minimum Performance Measures:

- 14 i. No later than 12 months after the effective date of this permit, each
15 Permittee shall develop and begin implementing a Structural Stormwater
16 Control program designed to control stormwater impacts that are not
17 adequately controlled by the other required actions of the SWMP. The
18 program shall include a description of projects and a construction
19 schedule, for projects that are scheduled for implementation during the
20 term of this permit.
- 21 ii. Each Permittee shall include a description of the Structural Stormwater
22 Control Program in the written documentation of their SWMP that must
23 be submitted with the first year annual report. The description of the
24 Structural Stormwater Control Program must include the following:
- 25 • The goals that the Structural Stormwater Control Program are intended
26 to achieve.
 - 27 • The planning process used to develop the Structural Stormwater
28 Control Program, including: the geographic scale of the planning
29 process, the issues and regulations addressed, the steps in the planning
30 process, the types of characterization information considered, the
31 amount budgeted for implementation, and the public involvement
32 process.
- 33
- 34 iii. For individual projects or programs of projects, provide a description of
35 the expected benefits including reductions in pollutant loading, flow
36 reductions, habitat enhancement or other benefits. For individual projects,
37 provide the following information:
- 38 •~~The estimated pollutant load reduction that will result from each project~~
39 ~~designed to provide stormwater treatment.~~
 - 40 •~~The expected outcome of each project designed to provide flow control.~~
 - 41 •~~Any other expected environmental benefits.~~
- 42

- 1 iv. Information about the Structural Stormwater Control Program shall be
2 updated with each annual report.

3
4 7. Source Control Program

- 5 a. The SWMP shall include a program to reduce pollutants in runoff from areas
6 that discharge to municipal separate storm sewers owned or operated by the
7 Permittee. The program shall include:
- 8 i. Requiring application of operational and structural source control BMPs,
9 and, if necessary, treatment BMPs to pollution generating sources associated
10 with existing land uses and activities.
- 11 ii. Inspections of pollutant generating sources at commercial, industrial and
12 multifamily properties to ensure implementation of BMPs to control
13 pollution discharging into municipal separate storm sewers owned or
14 operated by the Permittee. All Regulated municipalities (including those
15 covered under other municipal permits) within the same WRIA are
16 encouraged to pool municipal resources for more cost effective and
17 coordinated implementation of this permit responsibility.
- 18 iii. Application and enforcement of local ordinances at all applicable sites,
19 including those with industrial stormwater general NPDES permit coverage.
20 Municipalities may refer stormwater discharge problems associated with
21 violations of local ordinances only after implementing progressive
22 enforcement as required in S7.C.7.b.iv, below. Municipalities may not refer
23 stormwater discharge problems associated with industrial NPDES
24 Permittees to Ecology if the Permittee has local ordinances that impose
25 stricter standards than imposed through the permit issued by Ecology.
26 Permittees that are in compliance with the terms of this permit will not be
27 held liable by Ecology for water quality standard violations caused by
28 industries covered under an NPDES permit issued by Ecology.
- 29 ~~iv. Reduction of pollutants associated with the application of pesticides,~~
30 ~~herbicides, and fertilizer discharging into municipal separate storm sewers~~
31 ~~owned or operated by the Permittee. [This is already covered under~~
32 ~~Maintenance and Operation]~~
- 33 b. Minimum Performance Measures for Source Control Program:
- 34 i. No later than 12 months after the effective date of this permit, adopt and
35 begin enforcement of an ordinance requiring the application of source
36 control BMPs for pollutant generating sources associated with existing land
37 uses and activities (See Appendix 3, to identify pollutant generating
38 sources). The local source control requirements must include operational
39 and structural source control BMPs that, when used on a site specific basis,
40 will minimize the transfer of pollutants to POTWS and protect water
41 quality; by reduceing the discharge of pollutants to the maximum extent

practical, ~~and satisfy the state requirement under chapter 90.48 RCW to apply all known, available, reasonable methods of prevention, control and treatment (AKART) prior to discharge.~~ Permittees must document the stormwater source control BMP selection process for different ~~urban activities and~~ land uses, the types of BMPs and design criteria for those BMPs, ~~the technical basis~~ and an assessment of how the practices will protect water quality, ~~reduce by reducing~~ the discharge of pollutants to the maximum extent practical, ~~and satisfy the state AKART requirements.~~ Permittees may choose to use the source control BMPs in Volume IV of the 2001 Stormwater Management Manual for Western Washington ~~or an equivalent manual approved by Ecology.~~ If the demonstration approach is chosen, the Permittee must submit the proposed source control program and all necessary documentation to Ecology for review, no later than 9 months after the effective date of this permit. If Ecology does not request changes within 30 days, the proposed source control BMPs are considered approved.

Operational source control BMPs shall be required for all pollutant generating sources. Structural source control BMPs shall be required for pollutant generating sources that cause an illicit discharge or other pollution problem, including: causing or contributing to a violation of surface water, ground water, or sediment management standards; nuisance; or threat to public health and safety, because of inadequate stormwater controls. Implementation of source control requirements may be done through education and technical assistance programs, provided that formal enforcement authority is available to the Permittee and is used as necessary.

- ii. No later than 12 months after the effective date of this permit, compile a list of existing commercial, multifamily, industrial and government sites which are potentially pollution generating (see Appendix 3 for identifying sites). The list shall be updated no later than 180 days prior to the expiration date of this permit.
- iii. Starting no later than 24 months after the effective date of this permit, conduct an inspection program for all the listed sites, with adequate enforcement capability to ensure implementation of source control BMPs in accordance with the ordinance required in S7.C.8.b.i., above. 60% of the total of the listed properties must be inspected within 5 years of the effective date of the permit, provided that a portion of the inspections must be conducted during each subsequent year of the permit term. The inspection program shall be designed to inspect all sites, to the extent allowable under state law, once every 8 years. Adjust the inspection program as needed to incorporate new sites added to the list and reflect sites already inspected.
- iv. No later than 24 months after the effective date of this permit, each Permittee shall implement a progressive enforcement policy to ensure that facilities are brought into compliance with stormwater requirements within a reasonable time period as specified below:

(1) In the event that a Permittee determines, based on an inspection conducted above, that a site has failed to adequately implement all necessary BMPs, that Permittee shall take progressive enforcement action which, at a minimum, shall include a follow up contact (e.g., phone call, reminder letter, etc.) or inspection within 4 weeks 2 months from the date of the initial inspection.

(2) When a Permittee determines that a facility has failed to adequately implement BMPs after a follow-up inspection, that Permittee shall take further enforcement action as established through authority in its municipal code and ordinances, or through the judicial system.

(3) Each Permittee shall maintain records, including documentation of each site visit, inspection reports, warning letters, notices of violations, and other enforcement records, demonstrating a good faith effort to bring facilities into compliance. Each permittee shall also maintain records of sites that are not inspected because the property owner denies entry.

(4) A Permittee may refer violations of local ordinances to Ecology provided that the Permittee has made a good faith effort of progressive enforcement. At a minimum a Permittee's good faith effort must include documentation of:

- Two follow-up inspections, and
- Two warning letters or notices of violation

~~v. — [Moved this requirement to the Maintenance and Operation section and revised some of its wording] No later than 12 months after the effective date of this permit, adopt and implement policies and procedures to reduce pollutants associated with the application of pesticides, herbicides, fungicides, and fertilizer on all public property owned or managed by the Permittee, including parks and road right-of-ways. The program shall include the following, at a minimum:~~

~~(1) Identify and quantify all pesticides, herbicides, fungicides, and fertilizer used by the Permittee;~~

~~(2) Identify application practices of each listed product: location, timing, application rates;~~

~~(3) Ensure no application of pesticides, herbicides, fungicides, or fertilizers immediately before, during or after a rain event, or when water is flowing off the area to be applied;~~

~~(4) Ensure that staff applying pesticides or herbicides are certified by the Washington State Department of Agriculture;~~

~~(5)Implement procedures to use and manage herbicides, pesticides, fungicides, and fertilizer consistent with the adopted source control BMPs.~~

- vi. No later than 24 months after the effective date of this permit, provide training to facilitate proper operation of the source control program. This training shall cover the legal authority for source control (adopted codes, ordinances, rules, etc.), source control BMPs and their proper application, inspection protocols, and enforcement procedures. The training shall be provided to all existing and future new field staff involved in operation of the source control program. Documentation of the training provided and the staff trained shall be included in the third annual report and every annual report thereafter. Provide a minimum of two training sessions regarding the source control ordinance, inspection procedures and source control BMPs, for inspection and other appropriate field staff, to facilitate adequate implementation of the source control program. The first training shall be conducted no later than 24 months after the effective date of this permit. The second training shall be conducted no later than 48 months after the effective date of this permit.

8. Illicit Connections and Illicit Discharges Detection and Elimination

- a. The SWMP shall include an ongoing program to detect, remove and prevent illicit connections and illicit discharges, including spills, into the municipal separate storm sewers owned or operated by the Permittee. The program shall include:
- i. Effectively prohibiting all types of illicit discharges to the municipal separate storm sewers owned or operated by the Permittee other than those authorized under a separate NPDES permit. The categories of non-stormwater discharges listed in Appendix 4 must be addressed only if identified as a contributor of pollution to the MS3s owned or operated by the Permittee. As necessary, the Permittee(s) shall incorporate appropriate control measures in the stormwater management program to ensure the non-stormwater discharges listed in Appendix 4 are not sources of pollutants to waters of the state.
 - ii. Detecting and eliminating illicit connections to municipal separate storm sewers owned or operated by the Permittee.
 - iii. On-going identification of illicit discharges into the municipal separate storm sewer system, through inspections, monitoring and complaint response.
 - iv. Preventing, responding to, and cleaning having the responsible party eliminate and clean up illicit discharges into the municipal separate storm sewers owned or operated by the Permittee.

1 b. Minimum Performance Measures:

2 i. No later than the effective date of this permit, each Permittee must continue
3 implementing an on-going program to prevent, identify and respond to illicit
4 connections and illicit discharges. The program shall include adopting
5 procedures for reporting and correcting or removing illicit connections,
6 spills and other illicit discharges when they are suspected or identified. The
7 program shall also include procedures for controlling pollutants entering the
8 MS4 from an interconnected, adjoining MS4. Illicit connections and illicit
9 discharges shall be identified through field screening, inspections,
10 complaints/reports, construction inspections, maintenance inspections,
11 source control inspections, and/or monitoring information, as appropriate.

12 ii. No later than 12 months after the effective date of the permit, the Each
13 Permittee shall provide appropriate training to ensure that all existing and
14 future new municipal field staff who are responsible for identification,
15 investigation, termination, cleanup, and reporting illicit discharges,
16 including spills, improper disposal and illicit connections, are appropriately
17 trained to conduct these activities. Follow-up training shall be provided as
18 needed to address changes in procedures, techniques, or requirements.
19 Documentation of the training provided and the staff trained shall be
20 included in the second annual report and every annual report thereafter.
21 Training shall be completed no later than 12 months after the effective date
22 of this permit. Refresher training shall be conducted on an annual basis
23 thereafter.

24 iii. No later than 24 months after the effective date of this permit, All an
25 ongoing training program shall be developed and implemented for all
26 existing and future new municipal field staff, which as part of their normal
27 job responsibilities might come into contact with or otherwise observe an
28 illicit discharge or illicit connection to the storm sewer system. These staff
29 shall be trained on the identification of an illicit discharge/connection and on
30 the proper procedures for reporting the illicit discharge/connection. Follow-
31 up training shall be provided as needed to address changes in procedures,
32 techniques, or requirements. Documentation of the training provided and
33 the staff trained shall be included in the third annual report and every annual
34 report thereafter. All Regulated municipalities (including those covered
35 under other municipal permits) within the same WRIA are encouraged to
36 pool municipal resources for more cost effective implementation of this
37 training program. Initial training shall be completed no later than two years
38 from the effective date of this permit. Permittees shall conduct refresher
39 training on an annual basis thereafter.

40 iv.— [This item is extremely costly and is not necessary to adequately control
41 illicit discharges] Each Permittee shall initiate a program to develop and
42 maintain a map of all connections to the municipal separate storm sewer
43 authorized or allowed by the permittee. Each Permittee shall map

~~connections to the municipal separate storm sewer according to the following schedule:~~

~~City of Seattle and City of Tacoma: second year annual report~~

~~Snohomish, King, Pierce and Clark Counties: one half the area of the County within urban growth boundaries and urbanized areas in the 4th year annual report~~

iv. Each Permittee shall continue to provide a publicly listed water quality citizen complaints/reports telephone number. This program shall be in place no later than the effective date of this permit. Complaints shall be responded to in accordance with S7.C.8.b.vii. and ix., below.

vi. Each Permittee shall conduct on-going screening for illicit connections, including indicator monitoring, and tracking discharges to the source. The Permittee shall conduct an ongoing program to identify illicit connections. All Regulated municipalities (including those covered under other municipal permits) within the same WRIA are encouraged to pool municipal resources for more cost effective and coordinated implementation of this permit responsibility.

(1) City of Seattle and City of Tacoma shall schedule the screening for illicit discharges such that all of the City's municipal separate storm sewers are screened at least once during the term of this permit.

(2) Snohomish, King, Pierce and Clark Counties shall schedule the screening program such that all the municipal separate storm sewers located in one half the area of the County within urban/higher density rural subbasins [see definition inserted in definitions section] ~~growth boundaries and urbanized areas are screened during the term of this permit.~~

vii. Screening for illicit discharges shall be conducted using one or more of the methods listed below:

(1) The field screening method in 40 CFR 122.26(d)(1)(iv).

(2) Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments, Center for Watershed Protection, October 2004.

(3) Other alternative methods that have been approved by Ecology.

viii. Response to Illicit Connections

(1) Investigation: Upon discovery or upon receiving a report of a suspected illicit connection, Permittees shall initiate an investigation within 21 days, to determine the source of the connection, the nature and volume of discharge through the connection, and the responsible party for the connection.

(2) Termination: Upon confirmation of the illicit nature of a storm drain connection, Permittees shall ensure termination of the connection within 180 days, using enforcement authority as needed.

(3) A Permittee may refer illicit connection violations to Ecology provided that the Permittee has made a good faith effort of progressive enforcement which would include documentation of two follow-up inspections and two warning letters or notices of violation.

~~viii.~~ Each Permittee, no later than 6 months after the effective date for this permit, shall develop and implement procedures to prevent, respond to and clean up spills and improper disposal into municipal separate storm sewers owned or operated by the Permittee. Under these procedures, each Permittee shall investigate, within 7 days on average, any complaints/reports or monitoring information that indicates a potential illicit discharge, including a spill or illegal dumping. Permittees shall also investigate as soon as possible, within 24 hours, those problems/violations judged by the Permittee to be urgent or severe, or ~~reported as an~~ emergencyies. All Regulated municipalities (including those covered under other municipal permits) within the same WRIA are encouraged to pool municipal resources for more cost effective and coordinated implementation of this permit responsibility.

~~ix.~~ Each Permittee shall track and maintain records of the illicit discharge detection and elimination program, including documentation of inspections, complaint/spill response and other enforcement records.

9. Operation and Maintenance Program

a. The SWMP shall include a program to conduct maintenance activities that prevent or reduce stormwater impacts. All Regulated municipalities (including those covered under other municipal permits) within the same WRIA are encouraged to pool municipal resources for more cost effective and coordinated implementation of this permit responsibility. The program shall include:

- i. Maintenance standards and programs to ensure proper and timely maintenance of public and private stormwater facilities.
- ii. Practices for operating and maintaining public streets, roads, and highways to reduce stormwater impacts.
- iii. Policies and procedures to reduce pollutants associated with the application of pesticides, herbicides, and fertilizer by the Permittee's agencies or departments.
- iv. Practices for reducing stormwater impacts from *heavy equipment maintenance or storage yards*, and from *material storage facilities*.

b. Minimum Performance Measures:

- 1 i. Maintenance Standards. No later than 12 months after the effective date of
2 this permit, each Permittee must establish maintenance standards that are as
3 protective or more protective of facility function than those specified in
4 Chapter 4 of Volume V of the 2005 Stormwater Management Manual for
5 Western Washington.

6 The facility-specific maintenance standards are intended to be conditions
7 for determining if maintenance actions are required as identified through
8 inspection. They are not intended to be measures of the facility's required
9 condition at all times between inspections. Exceeding these conditions at
10 any time between inspections and/or maintenance does not automatically
11 constitute a violation of these standards. However, based upon inspection
12 observations, the inspection and maintenance schedules shall be adjusted to
13 minimize the length of time that a facility is in a condition that requires a
14 maintenance action. These standards are violated when an inspection
15 identifies a required maintenance action related to facility function, and that
16 action is not performed in a timely manner, for example, within 90-180 days
17 for typical maintenance, within 6-9 months for revegetation, and within 1
18 year for maintenance that requires capital construction of less than \$25,000.

- 19 ii. Maintenance of stormwater facilities regulated by the Permittee

- 20 (1) No later than 6 months after the effective date of this permit, each
21 Permittee shall update existing ordinances or other enforceable
22 documents requiring maintenance of all permanent stormwater
23 treatment and flow control facilities regulated by the Permittee, in
24 accordance with maintenance standards established under S7.C.9.b.i,
25 above.
- 26 (2) No later than 12 months after the effective date of this permit, each
27 Permittee shall develop and implement an initial inspection schedule
28 for all stormwater treatment and flow control facilities regulated by
29 the Permittee that ensures inspection of each facility at least once
30 during the term of this permit to enforce compliance with adopted
31 maintenance standards as needed based on the inspection.
- 32 (3) No later than 48 months after the effective date of this permit, each
33 Permittee shall develop an on-going inspection schedule for
34 implementation after the initial schedule to ensure annual inspections
35 of all stormwater treatment and flow control facilities regulated by
36 the Permittee. The annual inspection schedule may be changed to a
37 lesser or greater frequency of inspection, as appropriate to ensure
38 compliance with maintenance standards, based on maintenance
39 records of double the length of time of the proposed inspection
40 frequency.
- 41 (4) No later than 24 months after the effective date of this permit each
42 Permittee shall manage maintenance activities to inspect all new
43 permanent stormwater treatment and flow control facilities in new

1 residential developments every 6 months during the period of
2 heaviest house construction (i.e., 1 to 2 years following subdivision
3 approval) to identify maintenance needs and enforce compliance
4 with maintenance standards as needed.

- 5 (5) Compliance with the inspection requirements of S7.C.9.b.ii.(2),(3),
6 and (4), above, shall be determined by the presence of an established
7 inspection program designed to inspect all sites.

8 iii. Maintenance of stormwater facilities owned or operated by the Permittee

- 9 (1) No later than 24 months after the effective date of this permit each
10 Permittee shall begin implementing a program to inspect all
11 stormwater treatment and flow control facilities annually and take
12 appropriate maintenance action in accordance with adopted
13 maintenance standards. The annual inspection schedule may be
14 changed to a lesser or greater frequency of inspection as appropriate
15 to ensure compliance with maintenance standards based on
16 maintenance records of double the length of time of the proposed
17 inspection frequency.
- 18 (2) No later than 24 months after the effective date of this program each
19 Permittee shall begin implementing a program to conduct spot
20 checks of potentially damaged treatment and flow control facilities
21 after major storm events. If spot checks indicate widespread
22 damage/maintenance needs, inspect all stormwater treatment and
23 flow control facilities that may be affected. Conduct repairs or take
24 appropriate maintenance action in accordance with maintenance
25 standards established under S7.C.9.b.i, above, based on the results of
26 the inspections.
- 27 (3) Compliance with the inspection requirements of S7.C.9.b.iii.(1) and
28 (2), above, shall be determined by the presence of an established
29 inspection program designed to inspect all sites.

30 iv. Catch Basin Maintenance

- 31 (1) No later than 24 months after the effective date of this permit each
32 Permittee shall begin implementing a program to annually inspect
33 catchbasins and inlets owned or operated by the Permittee.
34 Inspections may be conducted on a "circuit basis" whereby a
35 sampling of catchbasins and inlets within each circuit is inspected to
36 identify maintenance needs. Include in the sampling an inspection of
37 the catchbasin immediately upstream of any system outfall. Clean
38 all catchbasins within a given circuit at one time if the inspection
39 sampling indicates cleaning is needed to comply with maintenance
40 standards established under S7.C.9.b.i, above. As an alternative to
41 inspecting catchbasins on a "circuit basis," the Permittee may inspect
42 all catchbasins, and clean only catchbasins where cleaning is needed

1 to comply with maintenance standards. The disposal of decant
2 water shall be in accordance with the requirements in Appendix 7,
3 which is by this reference as if set forth fully herein.

- 4 (2) The Permittee shall require cleaning of private catchbasins and inlets
5 whenever they are found to be out of compliance with adopted
6 maintenance standards.

7 v. Records of inspections and maintenance or repair activities conducted by the
8 Permittee shall be maintained.

9 vi. Establish practices to reduce stormwater impacts associated with runoff
10 from public parking lots, public streets, public roads, highways, and road
11 maintenance activities within 12 months of the effective date of this permit.

12 Adoption of the Regional Road Maintenance Endangered Species Act
13 Program Guidelines will be considered to meet this permit requirement.

14 Implementation of practices shall begin no later than 18 months after the
15 effective date of this permit, and continue on an ongoing basis throughout
16 the term of the permit. The following activities must be addressed:

- 17 (1) Pipe cleaning
18 (2) Cleaning of culverts that convey stormwater in ditch systems
19 (3) Ditch maintenance
20 (4) Street cleaning
21 (5) Road repair and resurfacing, including pavement grinding
22 (6) Snow and ice control
23 (7) Utility installation
24 (8) Maintaining roadside areas, including vegetation management.
25 (9) Dust control
26 (10) Pavement striping maintenance

27 vii. No later than 12 months after the effective date of this permit, each
28 Permittee shall establish and implement policies and procedures to reduce
29 pollutants in discharges from all lands owned or maintained by the
30 Permittee, including but not limited to: parks, open space, road right-of-
31 ways, maintenance yards, and at stormwater treatment and flow control
32 facilities. These policies and procedures must address, but are not limited
33 to:

- 34 • Application of fertilizer, pesticides, and herbicides, including the
35 development of an Integrated Pest Management Program (see
36 S7.C.9.b.viii below for details)
37 • Sediment and erosion control

- Landscape maintenance and vegetation disposal
- Trash management
- Building exterior cleaning and maintenance

viii [Moved from S7.C.7.b.v. and revised to read as follows] No later than 12 months after the effective date of this permit, adopt and implement policies and procedures to reduce pollutants associated with the application of pesticides, herbicides, fungicides, and fertilizer on all public property owned or managed by the Permittee, including parks and road right-of-ways. The program shall include the following, at a minimum:

- (1) Identify and quantify all pesticides, herbicides, fungicides, and fertilizer used by the Permittee;
- (2) Identify application practices of each restricted use pesticide or any pesticide applied by power equipment: location, timing and application rates;
- (3) Use reasonable efforts to avoid application of pesticides, herbicides, fungicides, or fertilizers immediately before a rain event, and ensure no application during or immediately after a rain event, or when water is flowing off the area to be applied;
- (4) Ensure that staff applying pesticides or herbicides follow label directions and, when required by the Washington State Department of Agriculture, have a valid pesticide license;
- (5) Implement procedures to use and manage herbicides, pesticides, fungicides, and fertilizer consistent with the adopted source control BMPs.

viii.x. ~~Conduct a minimum of 2 training sessions, during the term of the permit,~~ No later than 24 months after the effective date of this permit, develop and implement an ongoing training program for appropriate employees of the Permittee whose construction, operations or maintenance job functions may impact stormwater quality. This training program shall address the importance of protecting water quality, the requirements of this permit, operation and maintenance standards, inspection procedures, selecting appropriate BMPs, ways to perform their job activities to prevent or minimize impacts to water quality, and procedures for reporting water quality concerns, including potential illicit discharges. Documentation of the training provided and the employees trained shall be included in the third annual report and every annual report thereafter. All Regulated municipalities (including those covered under other municipal permits) within the same WRIA are encouraged to pool municipal resources for more cost effective implementation of this training program. The first training session shall be completed no later than 2 years after the effective

~~date of this permit; the second training session shall be completed no later than the end of the permit term.~~

- ix. Develop and implement a Stormwater Pollution Prevention Plan (SWPPP) for all *heavy equipment maintenance or storage yards*, and material storage facilities owned or operated by the Permittee, that are not covered under the Industrial Stormwater General permit. The SWPPP is a documented plan to implement measures to identify, prevent, and control the contamination of discharges of stormwater to surface or ground water. The SWPPPs must be developed within 18 months of the effective date of this permit. Implementation of non-structural BMPs shall begin immediately after the pollution prevention plan is developed. A schedule for implementation of structural BMPs shall be included in the SWPPP. Generic SWPPs that can be applied at multiple sites may be used to comply with this requirement. The SWPPP shall include periodic visual observation of stormwater outfalls and receiving water in close proximity of known stormwater outfalls, during a storm event, to evaluate the effectiveness of BMPs.

10. Education and Outreach Program

- a. The SWMP shall include an education and outreach program aimed at residents, businesses, industries, elected officials, policy makers, planning staff and other employees of the Permittee. The goal of the education and outreach program is to reduce or eliminate behaviors and practices that cause or contribute to adverse stormwater impacts. An education and outreach program may be developed locally or regionally. All Regulated municipalities (including those covered under other municipal permits) within the same WRIA are encouraged to pool municipal resources for more cost effective and coordinated implementation of this permit responsibility.
- b. Minimum Performance Measures:
- i. No later than 12 months after the effective date of this permit, ~~each the~~ Permittee shall implement or participate in an education and outreach program that uses different types of media (brochures alone are not adequate), and targets a wide range of interest groups to meet the education objectives ~~provide education on the topics~~ listed in iii, below.
- ii. The education and outreach program shall ~~address the following topics and target audiences~~ meet all of the following objectives by the expiration date of this permit:
- (1) Provide education opportunities ~~for all audiences~~ about the importance of improving water quality, reducing impervious surfaces, and protecting ~~beneficial the existing and designated~~ uses of waters of the state, about potential impacts caused by stormwater discharges, and

1 methods for avoiding, minimizing, reducing and/or eliminating the
2 adverse impacts of stormwater runoff.

- 3 (2) Provide and encourage public participation in environmental
4 stewardship activities.
- 5 (3) Provide information to the general public about actions individuals can
6 take to improve water quality ~~and reduce impervious surfaces~~ (e.g.,
7 lawn care with less fertilizer and pesticides, more use of native
8 vegetation for landscaping, proper disposal of pet wastes, etc.) and
9 reduce the runoff effects of impervious surface (e.g., use of permeable
10 pavement, pervious surface absorption, etc.).
- 11 (4) Provide information to the general public on proper use and disposal
12 of pesticides, herbicides, and fertilizers.
- 13 (5) Provide information to engineers, construction contractors, developers,
14 development review staff, and land use planners on technical
15 standards, the development of stormwater site plans and erosion
16 control plans, and BMPs for mitigating contaminated runoff and the
17 quantity of runoff from development sites.
- 18 (6) Provide information to engineers, contractors, developers, and the
19 public on land development practices and non-structural BMPs, such
20 as Low Impact Development, that eliminate, avoid, or minimize
21 adverse stormwater impacts.
- 22 (7) Provide information to the general public that explains illicit
23 discharges and their impacts, and promotes their removal~~to explain the~~
24 ~~definition and impacts, and promote removal of illicit discharges.~~
- 25 (8) Provide information to the general public that promotes proper
26 management and disposal of toxic materials (e.g. used oil, batteries,
27 vehicle fluids, home chemicals.)
- 28 (9) Provide information to ~~commercial target audiences~~businesses and
29 home owners that promotes implementation of source control BMPs to
30 reduce the discharge of pollutants from business and residential
31 activities in coordination with the source control inspection program.

32 ~~iii. Each Permittee shall develop and implement a public education and~~
33 ~~outreach program designed to reach 100% of the target audiences~~
34 ~~identified in S7.c.10.b.ii., above, within their jurisdiction, by the~~
35 ~~expiration date of this permit.~~

36 iv. Each permittee shall track and maintain records of public education and
37 outreach activities.

38 c. Alternate Minimum Performance Measures. The permittee may comply with
39 the following measures in lieu of those in S7.10.b. above:

- 1 i. No later than 12 months after the effective date of this permit, the Permittee
2 shall implement or participate in an education and outreach program that
3 uses a variety of methods targeting the audiences and topics listed in ii.
4 below. The outreach program shall be designed to achieve measurable
5 improvements in each target audience's understanding of the problem and
6 what they can do to solve it and measurable improvements in the percentage
7 of each target audience regularly carrying out the intended action or
8 behavior change.
- 9 ii. The education and outreach program shall increase regular adoption of the
10 following behaviors in the following target audiences by the expiration date
11 of this permit:
- 12 (1) Provide information about the importance of improving water quality,
13 reducing impervious surfaces, and protecting the existing and
14 designated uses of waters of the state and the potential impacts caused
15 by stormwater discharges, and promote specific actions and
16 opportunities for avoiding, minimizing, reducing and/or eliminating
17 the adverse impacts of stormwater runoff, especially through the use of
18 source control BMPs.
- 19 (2) Promote the use of natural yard care techniques (e.g. composting lawn
20 and yard clippings, using compost and mulch, using natural organic
21 fertilizers, watering infrequently and deeply) among homeowners, the
22 general public, landscape professionals, and property managers to
23 protect water quality.
- 24 (3) Encourage homeowners, the general public, landscape professionals,
25 and property managers to protect water quality by reducing their
26 purchase of and properly storing, using and disposing of pesticides,
27 fertilizers, and other yard care chemicals.
- 28 (4) Encourage the general public and businesses to protect water quality
29 by reducing their purchase of and properly storing, using, and
30 disposing of automotive chemicals, hazardous cleaning supplies, and
31 other hazardous materials, and by facilitating use of source control
32 BMPs that minimize the discharge of soap/detergents (e.g., supplying
33 or providing grant funding for carwash kits, etc.).
- 34 (5) Educate engineers, construction contractors, developers, development
35 review staff, and land use planners to follow technical standards,
36 develop stormwater site plans and erosion control plans, and use Best
37 Management Practices to mitigate contaminated runoff and the
38 quantity of runoff from development sites.
- 39 (6) Promote the understanding and use of Low Impact Development
40 (LID) techniques (e.g. appropriate site design, pervious paving, full
41 dispersion BMPs, and retention of forests and mature trees) among
42 engineers, contractors, developers, architects, landscape architects,

1 realtors, and potential home buyers to avoid or minimize stormwater
2 impacts of new development.

3 (7) Educate small businesses and the general public about the impacts of
4 illicit discharges and encourage their identification, and removal to
5 avoid impacts to water quality.

6 (8) Involve the general public in environmental stewardship activities (e.g.
7 habitat restoration and community involvement and education
8 projects) to increase awareness of the importance of water quality and
9 mitigate, reduce, or eliminate adverse impacts of stormwater runoff.

10 iii. Each permittee shall implement or participate in an effort to measure
11 understanding and adoption of the targeted behaviors among the targeted
12 audiences. The resulting measurements shall be used to direct education
13 and outreach resources most effectively as well as to evaluate changes in
14 adoption of the targeted behaviors.

15 iv. Each permittee shall track and maintain records of public education and
16 outreach activities.

17 **S8. STORMWATER MANAGEMENT PROGRAM FOR CO-PERMITTEES AND**
18 **SECONDARY PERMITTEES**

19 A. Each Co-Permittee and Secondary Permittee shall implement a stormwater
20 management program (SWMP) during the term of this permit. For the purpose of this
21 permit a SWMP for a Co-Permittee or Secondary Permittee is a set of actions and
22 activities comprising the components in this Special Condition as outlined below. The
23 SWMP shall also include any additional controls identified in Appendix 6 of this
24 permit which are necessary to meet applicable TMDL requirements.

25 1. S8.B Coordination, and S8.C Legal Authority are applicable to all Co-Permittees
26 and Secondary Permittees covered under this permit.

27 2. S8.D is applicable only to Port Districts Covered under this Permit.

28 3. S8.E is applicable only to King County as a Co-Permittee with the City of Seattle
29 for MS4s owned by King County but located within the City of Seattle.

30 4. S8.F is applicable all other Secondary Permittees excluding Port Districts.

31 B. Coordination

32 The SWMP for all Co-Permittees and Secondary Permittees shall include mechanisms
33 among Permittees, Co-Permittees, and Secondary Permittees to encourage coordinated
34 stormwater-related policies, programs and projects within a watershed and
35 interconnected municipal separate storm sewers. Where relevant and appropriate, the
36 SWMP shall also include coordination among departments within each jurisdiction to
37 ensure compliance with the terms of this permit.

1 No later than 6 months after receiving coverage under this permit the SWMP shall
2 provide for appropriate coordination with the City and County in which the Secondary
3 Permittee or Co-Permittee is located.

4 C. Legal Authority

5 To the extent allowable under state law, all Co-Permittees and Secondary Permittees
6 shall operate pursuant to adequate legal authority which authorizes or enables the
7 Secondary Permittee and Co-permittee to control discharges to and from municipal
8 separate storm sewers owned or operated by the Secondary Permittee.

9 This legal authority, which may be a combination of statute, ordinance, permit,
10 contracts, orders, interagency agreements, or similar means, shall include the ability to:

- 11 1. Control the contribution of pollutants to municipal separate storm sewers owned or
12 operated by the Co-Permittee or Secondary Permittee from stormwater discharges
13 associated with industrial activity, and control the quality of stormwater discharged
14 from sites of industrial activity, and control the quality of stormwater discharged
15 from sites of industrial activity into the Permittees municipal separate storm sewer
- 16 2. Prohibit illicit discharges to the municipal separate storm sewer owned or operated
17 by the Co-Permittee or Secondary Permittee;
- 18 3. Control the discharge of spills and the dumping or disposal of materials other than
19 stormwater into the municipal separate storm sewers owned or operated by the Co-
20 Permittee or Secondary Permittee;
- 21 4. Control the contribution of pollutants from one portion of the municipal separate
22 storm sewer system to another portion of the municipal separate storm sewer
23 system;
- 24 5. Require compliance with conditions in ordinances, permits, contracts, or orders;
25 and,
- 26 6. Carry out inspection, surveillance, and monitoring procedures necessary to
27 determine compliance and non-compliance with permit conditions, including the
28 prohibition on illicit discharges to the municipal separate storm sewer.

29 D. Stormwater Management Program for Port Districts:

- 30 1. Gathering, Maintaining, and Using Adequate Information. The SWMP shall include
31 an ongoing program for gathering, maintaining, and using adequate information to
32 conduct planning, priority setting, and program evaluation activities for Port-owned
33 properties.

34 Minimum Performance Measures. The following information will be gathered and
35 retained:

- 36 a. Mapping of known municipal separate storm sewer outfalls, and maps depicting
37 land use for property owned by the Port district, and all other properties served
38 by municipal separate storm sewers owned or operated by the Port. The

mapping shall be completed within 18 months of receiving coverage under this permit.

- b. Mapping of tributary conveyances, and the associated drainage areas of *major municipal separate storm sewer outfalls*, will be completed within 2 years of the effective date of this permit.
- c. Each Port shall make available to Ecology, upon request, GIS data layers depicting outfall locations, land use, tributary conveyances and associated drainage areas of major outfalls. GIS data shall be submitted in the format specified by Ecology at:
<http://www.ecy.wa.gov/services/gis/data/standards.htm>.
- c. No later than 18 months after receiving coverage under this permit, develop and implement a program to maintain operation and maintenance records for stormwater management facilities, indicating the date, what actions were taken and where wastes were disposed of. The information shall be available for inspection.
- d. Upon Request, mapping information and operation and maintenance records shall be provided to the City or County in which the Port is located.

- 2. Source Control in existing Developed Areas. The SWMP shall include a program to address impacts caused by stormwater discharges from areas of existing development through the development and implementation of Stormwater Pollution Prevention Plans (SWPPPs). SWPPPs shall be prepared and implemented for all Port-owned lands with potential pollutant-generating sources (see Appendix 3, for definition of pollutant-generating sources) that are not covered under the Industrial Stormwater General Permit, the Boatyard General Permit or an individual NPDES permit that covers stormwater discharges, and that could contribute pollutants to municipal separate storm sewers owned or operated by the Port.

Minimum Performance Measures

- a. SWPPPs must be developed for applicable properties within 18 months of receiving coverage under this permit. The SWPPP is a documented plan to implement measures to identify, prevent, and control the contamination of discharges of stormwater to surface or ground water.
- b. The SWPPP shall include a facility assessment including a site plan, identification of pollutant sources and description of the drainage system.
- c. The SWPPP shall include a description of the BMPs necessary for the site to eliminate or reduce stormwater contamination and, if necessary, regulate peak flow and volume of stormwater discharge. Implementation of non-structural BMPs shall begin immediately after the pollution prevention plan is developed. A schedule for implementation of structural BMPs shall be included in the SWPPP. Generic SWPPPs that can be applied at multiple sites may be used to comply with this requirement.

- 1 d. The Port shall maintain a list of sites for which SWPPPs are required under this
2 permit. At least 15% of the listed sites shall be inspected annually, and 80% of
3 the total number of listed properties will be inspected during the term of the
4 permit.
- 5 e. The SWPPPs shall include policies and procedures to reduce pollutants
6 associated with the application of pesticides, herbicides and fertilizer.
- 7 f. The SWPPPs shall include measures to prevent, identify and respond to illicit
8 discharges, including illicit connections, spills and improper disposal.
9 Immediately upon becoming aware of a spill into the drainage system owned or
10 operated by the Port, the Port shall notify the City or County it is located in, and
11 notify Ecology.
- 12 g. The SWPPPs shall include a component related to inspection and maintenance
13 of stormwater treatment and flow control facilities, and catchbasins, that is
14 consistent with the Port's Operation and Maintenance Program, as specified in
15 3., below. The SWPPP will address appropriate training for maintenance staff.
16 Records of inspections and maintenance activities shall be maintained.
- 17 3. Operation and Maintenance Program. The SWMP shall include an operation and
18 maintenance program for all stormwater treatment and flow control facilities, and
19 catchbasins to ensure that BMPs continue to function properly.

20 Minimum Performance Measures:

- 21 a. Each Port must prepare an operation and maintenance manual for all
22 stormwater treatment and flow control BMPs that are owned or maintained by
23 the Port. The deadline for preparing the maintenance manual is 18 months after
24 receiving coverage under this permit. A copy of the manual shall be retained in
25 the appropriate Port department. The operation and maintenance manual shall
26 establish facility-specific maintenance standards that are as protective, or more
27 protective than those specified in Chapter 4 of Volume V of the 2001
28 Stormwater Management Manual for Western Washington.
- 29 The facility-specific maintenance standards are intended to be conditions for
30 determining if maintenance actions are required as identified through
31 inspection. They are not a measure of the facilities required condition at all
32 times between inspections. Exceeding the maintenance standards between
33 inspections and/or maintenance does not automatically constitute a violation of
34 these standards. However, based upon inspection observations, the inspection
35 and maintenance schedules shall be adjusted to minimize the length of time that
36 a facility is in a condition that requires a maintenance action. These standards
37 are violated when an inspection identifies a required maintenance action, and
38 that action is not performed within 90 days for typical maintenance, within 6
39 months for re-vegetation, and within 1 year for maintenance that requires capital
40 construction.

1 b. Each Port will manage maintenance activities to inspect all stormwater
2 treatment and flow control BMPs annually and take appropriate maintenance
3 action in accordance with the operation and maintenance manual. The annual
4 inspection schedule may be changed to a lesser or greater frequency of
5 inspection as appropriate to ensure compliance with maintenance standards
6 based on maintenance records of double the length of time of the proposed
7 inspection frequency.

8 c. The Port shall provide appropriate training for Port maintenance staff.

9 4. Education Program. The SWMP shall include an education program aimed at
10 tenants and Port employees. The goal of the education program is to reduce or
11 eliminate behaviors and practices that cause or contribute to adverse stormwater
12 impacts.

13 Minimum Performance Measure:

14 a. No later than 18 months after receiving coverage under this permit, all tenant
15 and Port employees whose job duties could negatively impact stormwater will
16 receive educational materials.

17 5. Monitoring Program. The monitoring requirements for the Port of Seattle and Port
18 of Tacoma are included in Special Condition S6.

19 E. Stormwater Management Program for King County as a Co-Permittee

20 King County as a Co-Permittee with the City of Seattle for the Densmore Metro
21 Drainage Basin, as defined in the Memorandum of Agreement between the City and
22 King County dated September 25, 1995, shall participate in the City of Seattle's
23 Stormwater Management Program in accordance with the Joint Stormwater
24 Management Program element of the Memorandum of Agreement. The Joint
25 Stormwater Management Program shall at a minimum include the following:

- 26 1. Stormwater controls for areas of existing development consistent with S7.C.6.
27 2. A source control program consistent with S7.C.7.
28 3. An illicit discharge reduction program consistent with S7.C.8.
29 4. An operation and maintenance program consistent with S7.C.9.
30 5. A public education program consistent with S7.C.10.

31 F. Stormwater Management Program for Secondary Permittees

32 All other Secondary Permittees shall develop and implement the following Stormwater
33 Management Program. The term "all other Secondary Permittees" means drainage,
34 diking, flood control, or diking and drainage districts, and any other owners or
35 operators of municipal separate storm sewers located within the municipalities that are
36 listed as Permittees in special condition S1.B.

1 The SWMP shall be designed to reduce the discharge of pollutants from regulated small
2 MS4s to the maximum extent practicable and protect water quality. A SWMP is a set
3 of actions and activities comprising the components listed in S8.F.1 through S8.F.6,
4 below. Unless an alternate deadline is provided below, all components of the SWMP
5 shall be fully developed and implemented within 5 years of receiving coverage under
6 this permit.

7 1. Public Education and Outreach

8 Secondary Permittees must develop and implement a public education and outreach
9 program. The program shall distribute educational materials or conduct equivalent
10 outreach activities to educate the public, businesses and other entities in the area served
11 by the Secondary Permittees MS4.

12 The minimum performance measures are:

- 13 a. Each Secondary Permittee shall identify at least one target audience served by the
14 Secondary Permittees MS4 for stormwater education and will provide appropriate
15 information to that audience about proper stormwater management to prevent
16 water quality impacts.
- 17 b. The target audience(s) must be identified within one year from the date of permit
18 coverage; an outreach strategy designed to reach 100% of the identified target
19 audience must be developed and implemented within four years from the date of
20 permit coverage. This requirement may be met by participating in the education
21 program of the permitted jurisdiction that the secondary permittee is located
22 within.

23 2. Public Involvement

24 At a minimum, Secondary Permittees must comply with applicable State, tribal and
25 local public notice requirements when implementing a public involvement and
26 participation program. The SWMP shall include ongoing opportunities for public
27 involvement and participation through advisory panels, public hearings, watershed
28 committees, participation in developing rate-structures, stewardship programs,
29 environmental activities, volunteer opportunities, or other similar activities.

30 3. Illicit Discharge Detection and Elimination

31 The SWMP shall include measures to prevent, identify and respond to illicit discharges,
32 including illicit connections, spills, and improper disposals, which shall include
33 appropriate inspections and reports, and appropriate training and procedures to be used
34 by field staff to recognize, report, and respond to, illicit discharges.

35 The minimum performance measures are:

- 36 a. From the date of permit coverage, comply with all relevant ordinances, rules, and
37 regulations of the local jurisdiction(s) in which the Secondary Permittee is located

1 that govern discharges into the local jurisdictions municipal separate storm sewer
2 system.

3 b. Develop and enforce appropriate policies prohibiting illicit discharges and illegal
4 dumping. Identify possible enforcement mechanisms within one year from the
5 date of permit coverage; and, within eighteen months from the date of permit
6 coverage, develop and implement an enforcement plan using these mechanisms to
7 ensure compliance with illicit discharge policies adopted by the Secondary
8 Permittee.

9 c. Develop a map of the municipal separate storm sewer system owned or operated
10 by the Secondary Permittee within 2 years from the date of permit coverage. The
11 map shall include all known storm drain outfalls to waters of the state and the
12 name of the receiving water body or discharge points into adjacent MS4s. The
13 map shall also include all known tributary conveyances, and their associated
14 drainage areas, for all areas served by the MS4 owned or operated by the
15 Secondary Permittee.

16 The storm sewer map shall be provided to the City or County in which the
17 Secondary Permittee is located, upon the request of those entities. In accordance
18 with S7.C.2, Secondary Permittees may request mapping information from other
19 entities covered under this permit.

20 d. By the end of the permit term, develop and implement a spill response plan that
21 includes coordination with a qualified spill responder.

22 e. Provide staff training or coordinate with existing training efforts to educate
23 relevant staff on proper best management practices for identifying and preventing
24 spills and illicit discharges. All relevant staff must be trained by the end of the
25 permit term.

26 f. Identify areas of industrial activity served by the Secondary Permittee's MS4 that
27 require coverage under the Industrial General Permit, determine whether coverage
28 has been obtained, and inform the Department if coverage has not be obtained.

29 4. Construction Site Stormwater Runoff Control

30 The SWMP shall include a program to reduce pollutants in any stormwater runoff to
31 the MS4 from construction activities that meet the thresholds in Appendix 1 of this
32 permit.

33 The minimum performance measures are:

34 a. From the date of permit coverage, comply with all relevant ordinances, rules, and
35 regulations of the local jurisdiction(s) in which the secondary permittee is located
36 that govern construction phase stormwater pollution prevention measures.

37 b. From the date of permit coverage, seek coverage under the General NPDES
38 Permit for Stormwater Discharges Associated with Construction Activities, when
39 applicable.

- 1 c. Provide training or coordinate with existing training efforts to educate relevant
2 staff in erosion and sediment control BMPs and requirements, or hire trained
3 contractors to perform the work.

4 5. Post-Construction Stormwater Management for New Development and
5 Redevelopment

6 The SWMP shall include a program to address post-construction stormwater runoff
7 from new development and redevelopment projects that meet the thresholds in
8 Appendix 1 of this permit. The program must ensure that controls are in place that
9 would prevent or minimize water quality impacts.

10 The minimum performance measures are:

- 11 a. From the date of permit coverage, comply with all relevant ordinances, rules and
12 regulations of the local jurisdiction(s) in which the secondary permittee is located
13 that govern post-construction stormwater pollution prevention measures,
14 including proper operation and maintenance of the MS4.
- 15 b. Provide for the post-construction stormwater controls included in Appendix 1 to
16 be included on all new construction and other land-disturbing projects and ensure
17 that qualified staff or contractors design post-construction stormwater controls as
18 necessary to protect water quality on all projects.

19 6. Pollution Prevention and Good Housekeeping

20 All permittees must develop and implement an operation and maintenance program
21 (O&M Plan) that includes a training component and has the ultimate goal of preventing
22 or reducing pollutant runoff from municipal operations into MS4s. Within three years
23 from the date of permit coverage, each Secondary Permittee shall develop a municipal
24 O&M Plan. The O&M plan shall be fully implemented no later than five years from
25 the date of permit coverage.

26 The minimum performance measures are:

- 27 a. The O&M Plan shall include appropriate pollution prevention and good
28 housekeeping procedures for the following activities and/or types of facilities
29 carried out, or under the functional control of the of the Secondary Permittee:
- 30 • Stormwater collection and conveyance system maintenance
 - 31 • Drainage/ditch system maintenance
 - 32 • Structural stormwater controls
 - 33 • Roads, highways, and parking lots
 - 34 • Vehicle fleets (storage, washing, and maintenance)
 - 35 • Equipment storage and maintenance areas
 - 36 • Material storage areas
 - 37 • Parks and open space
 - 38 • Other facilities that that would reasonably be expected to discharge
39 contaminated runoff

- 1 b. The O&M plan shall include pollution prevention/good housekeeping practices at
2 all park areas and other open spaces maintained by the Secondary Permittee. The
3 O&M Plan must address, but is not limited to:
- 4 • Application of fertilizer, pesticides, and herbicides
 - 5 • Sediment and erosion control
 - 6 • Landscape maintenance and vegetation disposal
 - 7 • Trash management
 - 8 • Building exterior cleaning and maintenance
- 9 c. The O&M Plan shall include provisions for the regular inspection and
10 maintenance of post-construction structural BMPs. The O&M Plan shall establish
11 facility-specific maintenance standards that are as protective or more protective
12 than those specified in Chapter 4 of Volume V of the 2005 Stormwater
13 Management Manual for Western Washington.
- 14 The facility-specific maintenance standards are intended to be conditions for
15 determining if maintenance actions are required as identified through inspection.
16 They are not a measure of the facility's required condition at all times between
17 inspections. Exceeding the maintenance standards between inspections and/or
18 maintenance does not automatically constitute a violation of these standards.
19 However, based upon inspection observations, the inspection and maintenance
20 schedules shall be adjusted to minimize the length of time that a facility is in a
21 condition that requires a maintenance action. These standards are violated when
22 an inspection identifies a required maintenance action, and that action is not
23 performed within 90 days for typical maintenance, within 6 months for re-
24 vegetation, and within 1 year for maintenance that requires capital construction of
25 less than \$5,000.
- 26 d. Secondary Permittees shall annually inspect all post construction stormwater
27 BMPs. The annual inspections program shall begin no later than three years from
28 the date of permit coverage. The annual inspection schedule may be changed to a
29 lesser or greater frequency of inspection as appropriate to ensure compliance with
30 maintenance standards based on maintenance records of double the length of time
31 of the proposed inspection frequency.
- 32 e. Secondary Permittees shall properly maintain stormwater collection and
33 conveyance systems, including but not limited to: regular inspections, cleaning,
34 proper disposal of waste removed from the system (per Appendix 7), and record
35 keeping.
- 36 f. From the effective date of permit coverage, Secondary Permittees shall identify,
37 and submit a Notice of Intent for permit coverage for all facilities operated by the
38 Secondary Permittee that are required to be covered under the General NPDES
39 Permit for Stormwater Discharges Associated with Industrial Activities.
- 40 g. Secondary Permittees shall provide appropriate training for employees of the
41 Secondary Permittee whose construction, operations, or maintenance job
42 functions may impact stormwater quality. Training shall address the importance

1 of protecting water quality, the requirements of this permit, operation and
2 maintenance requirements, inspection procedures, ways to perform their job
3 activities to prevent or minimize impacts to water quality, and procedures for
4 reporting water quality concerns, including potential illicit discharges.

6 **S9. REPORTING REQUIREMENTS**

7 A. Each Permittee, co-Permittee and secondary Permittee shall submit, no later than March
8 31 of each year beginning in the year 2007, an annual report. The reporting period for
9 each annual report shall be the previous calendar year.

10 B. The annual report shall include the following information:

- 11 1. Status of compliance with the conditions of this permit, including the status of
12 implementing the components of the stormwater management program, and the
13 implementation schedule. If permit deadlines are not met, Permittees, co-
14 Permittees and secondary Permittees shall report the reasons why the requirement
15 was not met and how the requirements will be met in the future, including projected
16 implementation dates. A comparison of program implementation results to
17 performance standards established in this permit shall be included for each program
18 area.
- 19 2. Notification of any recent or proposed annexations or incorporations resulting in an
20 increase or decrease in permit coverage area, and implications for the stormwater
21 management program
- 22 3. Expenditures for the reporting period, with a breakdown for the components of the
23 stormwater management program.
- 24 4. A summary describing compliance activities, including the nature and number of
25 official enforcement actions, inspections, and types of public education activities;
26 and
- 27 5. Identification of known water quality improvements or degradation.

28
29 C. Report Format

30 Each Permittee, co-Permittee or secondary Permittee shall use the attached reporting
31 forms, in Appendix 8, which is by this reference as if set forth fully herein. Each
32 Permittee shall complete the applicable form in its entirety. Two copies of the
33 annual report shall be submitted to Ecology. In addition, an electronic copy of the
34 report, in pdf format, shall be submitted to Ecology

1 GENERAL CONDITIONS

2
3 **G1. DISCHARGE VIOLATIONS**

4 All discharges and activities authorized by this permit shall be consistent with the terms
5 and conditions of this permit.

6 **G2. PROPER OPERATION AND MAINTENANCE**

7 The Permittee shall at all times properly operate and maintain all facilities and systems of
8 collection, treatment, and control (and related appurtenances) which are installed or used
9 by the Permittee for pollution control to achieve compliance with the terms and conditions
10 of this permit.

11 **G3. NOTIFICATION OF SPILL**

12 If a Permittee has knowledge of a spill into a municipal storm sewer which could constitute
13 a threat to human health, welfare, or the environment, the Permittee shall notify the
14 Ecology regional office and other appropriate spill response authorities immediately but in
15 no case later than within 24 hours of obtaining that knowledge. Spills which might cause
16 bacterial contamination of shellfish, such as might result from broken sewer lines, shall be
17 reported immediately to the Department of Ecology and the Department of Health,
18 Shellfish Program. The Department of Ecology's Regional Office 24-hr. number is 425
19 649-7000 for NWRO and 360 407-6300 for SWRO and the Department of Health's
20 Shellfish 24-hr. number is 360-236-3330.

21 **G4. BYPASS PROHIBITED**

22 The intentional *bypass* of stormwater from all or any portion of a stormwater treatment
23 BMP whenever the design capacity of the treatment BMP is not exceeded, is prohibited
24 unless the following conditions are met:

- 25 A. Bypass is: (1) unavoidable to prevent loss of life, personal injury, or severe property
26 damage; or (2) necessary to perform construction or maintenance-related activities
27 essential to meet the requirements of the *Clean Water Act (CWA)*; and
- 28 B. There are no feasible alternatives to bypass, such as the use of auxiliary treatment
29 facilities, retention of untreated stormwater, or maintenance during normal dry periods.
- 30 "Severe property damage" means substantial physical damage to property, damage to
31 the treatment facilities which would cause them to become inoperable, or substantial
32 and permanent loss of natural resources which can reasonably be expected to occur in
33 the absence of a bypass. Severe property damage does not mean economic loss.

1 **G5. RIGHT OF ENTRY**

2 The Permittee shall allow an authorized representative of Ecology, upon the presentation of
3 credentials and such other documents as may be required by law at reasonable times:

- 4 A. To enter upon the Permittee's premises where a discharge is located or where any
5 records must be kept under the terms and conditions of this permit;
- 6 B. To have access to, and copy at reasonable cost and at reasonable times, any records that
7 must be kept under the terms of the permit;
- 8 C. To inspect at reasonable times any monitoring equipment or method of monitoring
9 required in the permit;
- 10 D. To inspect at reasonable times any collection, treatment, pollution management, or
11 discharge facilities; and
- 12 E. To sample at reasonable times any discharge of pollutants.

13 **G6. DUTY TO MITIGATE**

14 The Permittee shall take all reasonable steps to minimize or prevent any discharge in
15 violation of this permit which has a reasonable likelihood of adversely affecting human
16 health or the environment.

17 **G7. PROPERTY RIGHTS**

18 This permit does not convey any property rights of any sort, or any exclusive privilege.

19 **G8. COMPLIANCE WITH OTHER LAWS AND STATUTES**

20 Nothing in the permit shall be construed as excusing the Permittee from compliance with
21 any other applicable federal, state, or local statutes, ordinances, or regulations.

22 **G9. MONITORING**

23 A. Representative Sampling:

24 Samples and measurements taken to meet the requirements of this permit shall be
25 representative of the volume and nature of the monitored discharge, including
26 representative sampling of any unusual discharge or discharge condition, including
27 bypasses, upsets, and maintenance-related conditions affecting effluent quality.

28 B. Records Retention:

29 The Permittee shall retain records of all monitoring information, including all
30 calibration and maintenance records and all original recordings for continuous
31 monitoring instrumentation, copies of all reports required by this permit, and records of
32 all data used to complete the application for this permit, for a period of at least five
33 years. This period of retention shall be extended during the course of any unresolved
34 litigation regarding the discharge of pollutants by the Permittee or when requested by
35 the *Director*. On request, monitoring data and analysis shall be provided to Ecology.

36 C. Recording of Results:

For each measurement or sample taken, the Permittee shall record the following information: (1) the date, exact place and time of sampling; (2) the individual who performed the sampling or measurement; (3) the dates the analyses were performed; (4) who performed the analyses; (5) the analytical techniques or methods used; and (6) the results of all analyses.

D. Test Procedures:

All sampling and analytical methods used to meet the monitoring requirements specified in the approved stormwater management program shall conform to the Guidelines Establishing Test Procedures for the Analysis of Pollutants contained in 40 CFR Part 136, unless otherwise specified in this permit or approved in writing by Ecology.

E. Flow Measurement:

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to ensure that the accuracy of the measurements are consistent with the accepted industry standard for that type of device. Frequency of calibration shall be in conformance with manufacturer's recommendations or at a minimum frequency of at least one calibration per year. Calibration records should be maintained for a minimum of three years.

F. Lab Accreditation:

All monitoring data, except for flow, temperature, conductivity, pH, total residual chlorine, and other exceptions approved by Ecology, shall be prepared by a laboratory registered or accredited under the provisions of, Accreditation of Environmental Laboratories, Chapter 173-50 WAC. Soils and hazardous waste data are exempted from this requirement pending accreditation of laboratories for analysis of these media by Ecology.

G. Additional Monitoring:

Ecology may establish specific monitoring requirements in addition to those contained in this permit by administrative order or permit modification.

G10. REMOVED SUBSTANCES

With the exception of decant from street waste vehicles, the Permittee shall not allow collected screenings, grit, solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of stormwater to be resuspended or reintroduced to the storm sewer system or to waters of the state. Decant from street waste vehicles resulting from cleaning stormwater facilities may be reintroduced only when other practical means are not available and only in accordance with the Street Waste Disposal Guidelines in Appendix 7, which is by this reference as if set forth fully herein.

1 **G11. SEVERABILITY**

2 The provisions of this permit are severable, and if any provision of this permit, or the
3 application of any provision of this permit to any circumstance, is held invalid, the
4 application of such provision to other circumstances, and the remainder of this permit
5 shall not be affected thereby.

6 **G12. REVOCATION OF COVERAGE**

7 The director may terminate coverage under this General Permit in accordance with
8 Chapter 43.21B RCW and Chapter 173-226 WAC. Cases where coverage may be
9 terminated include, but are not limited to the following:

- 10 A. Violation of any term or condition of this general permit;
- 11 B. Obtaining coverage under this general permit by misrepresentation or failure to
12 disclose fully all relevant facts;
- 13 C. A change in any condition that requires either a temporary or permanent reduction
14 or elimination of the permitted discharge;
- 15 D. A determination that the permitted activity endangers human health or the
16 environment, or contributes significantly to water quality standards violations;
- 17 E. Failure or refusal of the Permittee to allow entry as required in rcw 90.48.090;
- 18 F. Nonpayment of permit fees assessed pursuant to rcw 90.48.465;

19 Revocation of coverage under this general permit may be initiated by Ecology or
20 requested by any interested person.

21 **G13. TRANSFER OF COVERAGE**

22 The director may require any discharger authorized by this general permit to apply for
23 and obtain an individual permit in accordance with Chapter 43.21B RCW and Chapter
24 173-226 WAC.

25 **G14. GENERAL PERMIT MODIFICATION AND REVOCATION**

26 This general permit may be modified, revoked and reissued, or terminated in
27 accordance with the provisions of WAC 173-226-230. Grounds for modification,
28 revocation and reissuance, or termination include, but are not limited to the following:

- 29 A. A change occurs in the technology or practices for control or abatement of
30 pollutants applicable to the category of dischargers covered under this general
31 permit;
- 32 B. Effluent limitation guidelines or standards are promulgated pursuant to the CWA or
33 chapter 90.48RCW, for the category of dischargers covered under this general
34 permit;
- 35 C. A water quality management plan containing requirements applicable to the
36 category of dischargers covered under this general permit is approved; or

- 1 D. Information is obtained which indicates that cumulative effects on the environment
2 from dischargers covered under this general permit are unacceptable.

3 **G15. REPORTING A CAUSE FOR MODIFICATION OR REVOCATION**

4 A Permittee who knows or has reason to believe that any activity has occurred or will
5 occur which would constitute cause for modification or revocation and reissuance under
6 Condition G12, G14, or 40 CFR 122.62 must report such plans, or such information, to
7 Ecology so that a decision can be made on whether action to modify, or revoke and
8 reissue this permit will be required. Ecology may then require submission of a new or
9 amended application. Submission of such application does not relieve the Permittee of
10 the duty to comply with this permit until it is modified or reissued.

11 **G16. APPEALS**

- 12 A. The terms and conditions of this general permit, as they apply to the appropriate
13 class of dischargers, are subject to appeal within thirty days of issuance of this
14 general permit, in accordance with Chapter 43.21B RCW, and Chapter 173-226
15 WAC.
- 16 B. The terms and conditions of this general permit, as they apply to an individual
17 discharger, are appealable in accordance with chapter 43.21b rcw within thirty days
18 of the effective date of coverage of that discharger. Consideration of an appeal of
19 general permit coverage of an individual discharger is limited to the general
20 permit's applicability or nonapplicability to that individual discharger.
- 21 C. The appeal of general permit coverage of an individual discharger does not affect
22 any other dischargers covered under this general permit. If the terms and conditions
23 of this general permit are found to be inapplicable to any individual discharger(s),
24 the matter shall be remanded to ecology for consideration of issuance of an
25 individual permit or permits.
- 26 D. Modifications of this permit are appealable in accordance with chapter 43.21B
27 RCW and chapter 173-226 WAC.

28 **G17. PENALTIES**

29 40 CFR 122.41(a)(2) and (3), 40 CFR 122.41(j)(5), and 40 CFR 122.41(k)(2) are
30 hereby incorporated into this permit by reference.

31 **G18. DUTY TO REAPPLY**

32 The Permittee must apply for permit renewal at least 180 days prior to the specified
33 expiration date of this permit. An expired permit continues in force and effect until a
34 new permit is issued or until Ecology cancels the permit. Only Permittees who have
35 reapplied for coverage under this permit are covered under the continued permit.

1 **G19. CERTIFICATION AND SIGNATURE**

2 All applications, reports, or information submitted to Ecology shall be signed and
3 certified.

4 A. All permit applications shall be signed by either a principal executive officer or
5 ranking elected official.

6 B. All reports required by this permit and other information requested by Ecology shall
7 be signed by a person described above or by a duly authorized representative of that
8 person. A person is a duly authorized representative only if:

9 1. The authorization is made in writing by a person described above and submitted
10 to Ecology, and

11 2. The authorization specifies either an individual or a position having responsibility
12 for the overall development and implementation of the stormwater management
13 program. (A duly authorized representative may thus be either a named individual
14 or any individual occupying a named position.)

15 C. Changes to authorization. If an authorization under General Condition G19.B.2 is no
16 longer accurate because a different individual or position has responsibility for the
17 overall development and implementation of the stormwater management program, a
18 new authorization satisfying the requirements of General Condition G19.B.2 must be
19 submitted to Ecology prior to or together with any reports, information, or
20 applications to be signed by an authorized representative.

21 D. Certification. Any person signing a document under this permit shall make the
22 following certification:

23 "I certify under penalty of law, that this document and all attachments were prepared
24 under my direction or supervision in accordance with a system designed to assure that
25 qualified personnel properly gathered and evaluated the information submitted.
26 Based on my inquiry of the person or persons who manage the system or those
27 persons directly responsible for gathering information, the information submitted is,
28 to the best of my knowledge and belief, true, accurate, and complete. I am aware that
29 there are significant penalties for submitting false information, including the
30 possibility of fine and imprisonment for willful violations."

31 **G20. RECORDS RETENTION**

32 Each Permittee is required to keep all records related to this permit for at least five years.

1 **DEFINITIONS AND ACRONYMS**

2 "Best Management Practices" ("BMPs") means the schedules of activities, prohibitions of
3 practices, maintenance procedures, and structural and/or managerial practices that when used
4 singly or in combination, prevent or reduce the release of pollutants and other adverse impacts to
5 waters of Washington State.

6 "Beneficial uses" means.....

7 "Bypass" means the diversion of stormwater from any portion of a stormwater treatment facility.

8 "CWA" means Clean Water Act (formerly referred to as the Federal Water Pollution Control Act
9 or Federal Water Pollution Control Act Amendments of 1972) Pub.L. 92-500, as amended Pub.
10 L. 95-217, Pub. L. 95-576, Pub. L. (6-483 and Pub. L. 97-117, 33 U.S.C. 1251 et.seq.

11 "Component" or "Program Component" means the elements of the stormwater management
12 program listed in Special Condition S7 or S8.

13 "Co-Permittee" means an owner or operator of a municipal separate storm sewer (other than an
14 incorporated city) located within a large or medium municipality, that has co-applied for a permit
15 with that municipality, and that is only responsible for permit conditions relating to the discharge
16 for which it is operator.

17 "Director" means the Director of the Washington State Department of Ecology, or an authorized
18 representative.

19 "Discharge" *****Edit this definition as shown for use with TEIR 3 & 4 versions of**
20 **Condition S5 comments/edits***** for the purpose of this permit, unless indicated otherwise,
21 refers to discharges ~~to~~from Municipal Separate Storm Sewers of the ~~Permittees~~permittees as well
22 as from the MS3s of permittees.

23 "Entity" means.....

24 "Existing Stormwater Discharge" *****Delete this definition consistent with TIER 1 & 2**
25 **versions of Condition S5 comments/edits*****

26 "Existing Stormwater Discharge" *****Edit this definition as shown for use with TEIR 3 & 4**
27 **versions of Condition S5 comments/edits***** means a discharge ~~either to or~~ from a municipal
28 separate storm sewer constructed or vested before the effective date of this permit, at the point
29 where it discharges to receiving waters or to a MS4. An existing stormwater discharge ~~serves-is~~
30 one that comes from an area of existing development ~~and does not include new stormwater~~
31 sources or new stormwater outfalls.

32 "40 CFR" means Title 40 of the Code of Federal Regulations, which is the codification of the
33 general and permanent rules published in the Federal Register by the executive departments and
34 agencies of the federal government.

1 “General Permit” means a permit which covers multiple dischargers of a point source category
2 within a designated geographical area, in lieu of individual permits being issued to each
3 discharger.

4 “Heavy equipment maintenance or storage yard” means an uncovered area where any heavy
5 equipment, such as mowing equipment, excavators, dump trucks, backhoes, or bulldozers are
6 washed or regularly maintained, or where at least five pieces of heavy equipment are stored

7 “Illicit connection” means any man-made conveyance that is connected to a municipal separate
8 storm sewer without a permit, excluding roof drains and other similar type connections.
9 Examples include sanitary sewer connections, floor drains, channels, pipelines, conduits, inlets,
10 or outlets that are connected directly to the municipal separate storm sewer system.

11 “Illicit discharge” means any discharge to a municipal separate storm sewer that is not composed
12 entirely of storm water except discharges pursuant to a NPDES permit (other than the NPDES
13 permit for discharges from the municipal separate storm sewer) and discharges resulting from
14 fire fighting activities.

15 “Integrated Pest Management” means a coordinated decision-making and action process that
16 uses the most appropriate pest control methods and strategy in an environmentally and
17 economically sound manner to meet agency programmatic pest management objectives. The
18 elements of integrated pest management include:

19 (a) Preventing pest problems;

20 (b) Monitoring for the presence of pests and pest damage;

21 (c) Establishing the density of the pest population, that may be set at zero, that can be tolerated or
22 correlated with a damage level sufficient to warrant treatment of the problem based on health,
23 public safety, economic, or aesthetic thresholds;

24 (d) Treating pest problems to reduce populations below those levels established by damage
25 thresholds using strategies that may include biological, cultural, mechanical, and chemical
26 control methods and that must consider human health, ecological impact, feasibility, and cost-
27 effectiveness; and

28 (e) Evaluating the effects and efficacy of pest treatments.

29 “Pest” means, but is not limited to, any insect, rodent, nematode, snail, slug, weed, and any form
30 of plant or animal life or virus, except virus, bacteria, or other microorganisms on or in a living
31 person or other animal or in or on processed food or beverages or pharmaceuticals, which is
32 normally considered to be a pest, or which the director of the department of agriculture may
33 declare to be a pest.

34 “Large Municipal Separate Storm Sewer System (Large MS4)” means all Municipal Separate
35 Storm Sewers located in an incorporated place with a population of 250,000 or more, a County
36 with unincorporated urbanized areas with a population of 250,000 or more according to the 1990
37 decennial census by the Bureau of Census.

1 “Low Impact Development” (LID) means a stormwater management and land development
2 strategy applied at the parcel and subdivision scale that emphasizes conservation and use of on-
3 site natural features integrated with engineered, small-scale hydrologic controls to more closely
4 mimic pre-development hydrologic functions.

5 "Maintenance" means those actions and activities that are performed to maintain the original line
6 and grade, hydraulic capacity, or original purpose of the facility.

7 "Major Municipal Separate Storm Sewer Outfall" means a municipal separate storm sewer
8 outfall from a single pipe with an inside diameter of 36 inches or more, or its equivalent
9 (discharge from a single conveyance other than circular pipe which is associated with a drainage
10 area of more than 50 acres); or for municipal separate storm sewers that receive stormwater from
11 lands zoned for industrial activity (based on comprehensive zoning plans or the equivalent), an
12 outfall that discharges from a single pipe with an inside diameter of 12 inches or more or from its
13 equivalent (discharge from other than a circular pipe associated with a drainage area of 12 acres
14 or more).

15 "Material Storage Facilities" means an uncovered area where bulk materials (liquid, solid,
16 granular, etc.) are stored in piles, barrels, tanks, bins, crates, or other means.

17 "Medium Municipal Separate Storm Sewer System (Medium MS4)" means all Municipal
18 Separate Storm Sewers (MS3s) located in an incorporated place with a population of more than
19 100,000 but less than 250,000, or a county with unincorporated urbanized areas of more than
20 100,000 but less than 250,000 according to the 1990 decennial census by the Bureau of Census.

21 "Municipal Separate Storm Sewer (MS3)" means a conveyance, or system of conveyances
22 (including drainage systems associated with roads and municipal streets~~roads with drainage~~
23 ~~systems, municipal streets~~, catch basins, curbs, gutters, ditches, manmade channels, or storm
24 drains): (i) owned or operated by a state, city, town, borough, county, parish, district,
25 association, or other public body (created by or pursuant to State Law) having jurisdiction over
26 disposal of wastes, storm water, or other wastes, including special districts under State Law such
27 as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe
28 or an authorized Indian tribal organization, or a designated and approved management agency
29 under section 208 of the CWA that discharges to waters of the United States; (ii) designed or
30 used for collecting or conveying stormwater; (iii) which is not a combined sewer; and (iv) which
31 is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

32 "National Pollutant Discharge Elimination System" (NPDES) means the national program for
33 issuing, modifying, revoking, and reissuing, terminating, monitoring and enforcing permits, and
34 imposing and enforcing pretreatment requirements, under sections 307, 402, 318, and 405 of the
35 Federal Clean Water Act, for the discharge of pollutants to surface waters of the state from point
36 sources. These permits are referred to as NPDES permits and, in Washington State, are
37 administered by the Washington Department of Ecology.

38 "New Stormwater Discharge" [***Delete this definition consistent with TIER 1 & 2 versions
39 of Condition S5 comments/edits***]

1 “New Stormwater Discharge” *****Edit this definition as shown for use with TEIR 3 & 4**
2 **versions of Condition S5 comments/edits***** ~~includes means the discharge generated by and~~
3 ~~at the discharge point of a new stormwater source, and or the discharge created by a new~~
4 ~~stormwater outfalls.~~

5 “New Stormwater Outfall” *****Delete this definition consistent with TIER 1 & 2 versions of**
6 **Condition S5 comments/edits*****

7 “New Stormwater Outfall” *****Edit this definition as shown for use with TEIR 3 & 4**
8 **versions of Condition S5 comments/edits***** means a municipal separate storm sewer, at the
9 point where it discharges to receiving waters, that is vested after the effective date of this permit,
10 and is constructed at a location where a municipal separate stormwater discharge did not exist at
11 the effective date of the permit. ~~A new stormwater outfall may consist of new stormwater~~
12 ~~sources, existing stormwater sources or a combination of new and existing stormwater sources.~~
13 ~~A new stormwater outfall does not include a replacement of an existing outfall, provided that the~~
14 ~~replacement does not increase the volume, flow rate, or pollutant load of the discharge, and~~
15 ~~discharges to the same water body at approximately the same location.~~

16 “New Stormwater Outfall” *****TIER 5***Edit this definition as shown if the above edit for**
17 **TEIR 3 & 4 is not acceptable** means a municipal separate storm sewer, at the point where it
18 discharges to receiving waters, that is vested after the effective date of this permit, and is
19 constructed at a location where a municipal separate stormwater discharge did not exist at the
20 effective date of the permit. ~~A new stormwater outfall may consist of new stormwater sources,~~
21 ~~existing stormwater sources or a combination of new and existing stormwater sources.~~ **[Delete**
22 **this sentence because it is confusing and addresses discharges, not structures]** A new
23 stormwater outfall does not include a replacement of an existing outfall, provided that the
24 replacement does not increase the volume, flow rate, or pollutant load of the discharge, and
25 discharges to the same water body at approximately the same location. **[This last sentence**
26 **contradicts the first sentence unless you clarify that the "existing outfall" being replaced is**
27 **a non-MS3 outfall. If you meant it to include MS3 outfalls, you need to (1) fix the first**
28 **sentence's statement that a new outfall is one "constructed at a location where a municipal**
29 **separate discharge did not exist..."**, and (2) add these words to the end of the last sentence:
30 **", except in cases where environmental permits require replacing an existing structure with**
31 **a different type structure"**. The replacement of existing structures with different type
32 structures where mandated by environmental permits should not be defined as a new
33 outfall. This definition must refer only to the structure and not be driven by the change in
34 discharge. Outfalls that receive new flows from upstream development should not have
35 their status changed. The new flows must be addressed at the point of discharge to the
36 MS4 and not at the point of discharge from the MS4. The permittee should not be
37 penalized when environmental permits require replacing an existing structure with a
38 different type structure or in a different location.]

39 “New Stormwater Source” *****Delete this definition consistent with TIER 1 & 2 versions of**
40 **Condition S5 comments/edits*****

1 “New Stormwater Source” *****Edit this definition as shown for use with TEIR 3 & 4**
2 **versions of Condition S5 comments/edits***** means any New Development and
3 Redevelopment, as defined in Appendix 1 **(or in equivalent standards approved by Ecology)**, that
4 is vested after the effective date of this permit, increases the volume, flow rate, or pollutant load
5 of the stormwater runoff from the site, and discharges to a municipal separate storm sewer
6 owned or operated by the Permittee or co-Permittee.

7 “Notice of Intent” (NOI) means the application for, or a request for coverage under this General
8 Permit pursuant to WAC 173-226-200.

9 “Notice of Intent for Construction Activity,” and “Notice of Intent for Industrial Activity” mean
10 the application forms for coverage under the Construction Stormwater General Permit and the
11 Industrial Stormwater General Permit.

12 “Outfall” means point source as defined by 40 CFR 122.2 at the point where a municipal
13 separate storm sewer discharges to waters of the State and does not include open conveyances
14 connecting two municipal separate storm sewers, or pipes, tunnels, or other conveyances which
15 connect segments of the same stream or other waters of the State and are used to convey waters
16 of the State.

17 “Physically Interconnected” means that one MS4 is connected to a second MS4 in such a way
18 that it allows for direct discharges to the second system. For example, the roads with drainage
19 systems and municipal streets of one entity are physically connected directly to a MS4 belonging
20 to another entity.

21 “Process Wastewater” means any water which, during manufacture or processing, comes into
22 direct contact with or results from the production or use of any raw material, intermediate
23 product, finished product, by product, or waste product.

24 “Qualified Personnel” means someone who has had professional training in the aspects of
25 stormwater management they are responsible for.

26 “Runoff” **means that portion of water originating from rainfall and other precipitation that flows**
27 **over the surface or just below the surface from where it fell and is found in drainage facilities,**
28 **rivers, streams, springs, seeps, ponds, lakes, wetlands, and shallow groundwater as well as on**
29 **ground surfaces. see Stormwater.**

30 “Shared Waterbodies” means waterbodies, including downstream segments, lakes and estuaries,
31 that receive discharges from more than one Permittee.

32 “Site-specific Information” *****Delete this definition consistent with TIER 1 & 2 versions of**
33 **Condition S5 comments/edits*****

34 “Site-specific Information” *****Edit this definition as shown for use with TEIR 3 & 4**
35 **versions of Condition S5 comments/edits***** ~~includes but is not limited to:~~ means information
36 **approved or authorized by the Permittee that includes but is not limited to (1) information** in
37 water quality management plans such as watershed or stormwater basin plans, **TMDLs,**

groundwater management plans, and lake management plans; (2) information about hydrology, soils, ~~pollutant sources~~, or the sensitivity of the receiving waters, or (3) ~~that is information~~ obtained through professional field observations, ~~or monitoring, or other studies; and information about likely pollutant sources.~~

"Stormwater" means that portion of precipitation that does not naturally percolate into the ground or evaporate, but flows via overland flow, interflow, pipes and other features of a stormwater drainage system into a defined surface waterbody, or a constructed infiltration facility. ~~stormwater runoff, snow melt runoff, and surface runoff and drainage.~~ [There has been a lack of consistency between permits and other regulations issued by Ecology. The term "stormwater" should have one definition across all permits and regulations. This should apply to all definitions, terms, acronyms or even concepts generated by Ecology regardless of what law, regulation, or permit the word or term is located.]

"Stormwater Associated with Industrial Activity" means the discharge from any conveyance which is used for collecting and conveying stormwater, which is directly related to manufacturing, processing or raw materials storage areas at an industrial plant, and is required to have an NPDES permit in accordance with 40 CFR 122.26.

"Stormwater facilities" means.....

"Stormwater Management Manual for Western Washington" means the 5-volume technical manual (Publication Nos. 05-10-029 through 05-10-033) published by Ecology in February 2005.

"Urban/higher density rural subbasin" means any subbasin or portion thereof that is within or proposed to be within the urban growth area (UGA), or any rural area subbasin or portion thereof fifty percent or more of which is comprised of lots smaller than 5 acres in size.

"Vesting" means the date, established by local government, that is used to determine which development regulations apply to the review of a complete development permit application or approved development permit.

"Waters of the State" includes those waters as defined as "waters of the United States" in 40 CFR Subpart 122.2 within the geographic boundaries of Washington State and "waters of the state" as defined in Chapter 90.48 RCW which includes lakes, rivers, ponds, streams, inland waters, underground waters, salt waters and all other surface waters and water courses within the jurisdiction of the State of Washington.

"Water Quality Standards" means Surface Water Quality Standards, Chapter 173-201A WAC, Ground Water Quality Standards, Chapter 173-200 WAC, and Sediment Management Standards, Chapter 173-204 WAC.

[COMMENTS ON THE APPENDICES:]

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[APPENDIX 1: The definition of Maintenance refers to Section 2.2 – There is no section 2.2 in this permit.]

[APPENDIX 3: See the attached document]